

A New Reality

Innovative Home Theater by Onkyo



Contents

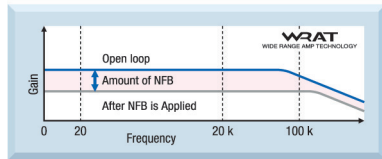
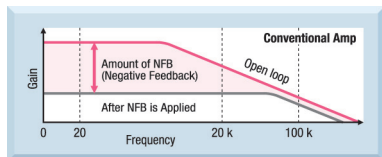
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A little over thirty years ago, the release of Betamax and VHS revolutionized the world of home entertainment by bringing prerecorded video content into the home. Ten years later, the next breakthrough format, Laserdisc, first made its way onto our screens. Fast-forward to 1997, and the DVD format amazed us with its visual clarity and portability. Needless to say, we've witnessed some astonishing A/V progress in a very short period of time. The launch of

the HD DVD and Blu-ray Disc formats in 2006 represents a quantum leap in recorded high-definition media. 2006 also marks Onkyo's 60th year in the A/V industry. With our roots steeped in audio excellence and home theater innovation, Onkyo looks forward to melding the promise of high-definition technology with A/V components that draw their strength from build quality, proven expertise and emotive reproduction.

3 Significant Benefits You Get from WRAT



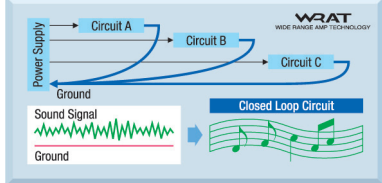
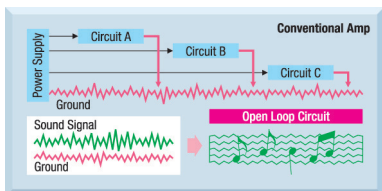
Benefit 1: Uncommonly Low Negative-Feedback Design—so you'll enjoy cleaner sound on programme peaks

Although NFB (negative feedback) is the most cost-effective way to reduce noise at lower frequencies, there's a sonic price to pay: larger amounts of NFB severely

inhibit an amplifier's transient response—the ability to respond to large signal gains (e.g. explosions and musical finales)—and actually distort sound at high frequencies. That's why our engineers use a low negative-feedback design, with audiophile-grade, close-tolerance components at critical points in the signal path, to achieve a frequency response out to 100 kHz. That means you can fully enjoy the sonic benefits from such high-resolution formats as DVD-Audio and Super Audio CD as well as your regular CDs and DVDs.

Benefit 2: Closed Ground-Loop Circuits—so you'll enjoy greater maximum volume without distortion

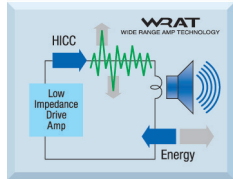
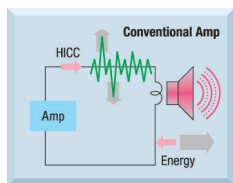
If an amplifier's ground potential (voltage) fluctuates during playback of movie soundtracks or musical performances, you wind up with unpleasant noise. In an open-loop circuit design, all circuits are connected to the power supply via one loop. If all circuits share the same loop



(like on many amplifiers), the noise multiplies exponentially. Onkyo's sophisticated closed-circuit design allows each circuit to go and return directly to the power supply. This cancels any individual circuit noise, and keeps the ground potential free of distortion.

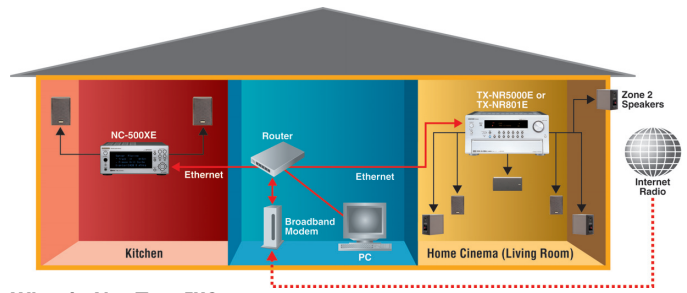
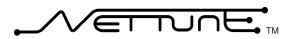
Benefit 3: High Instantaneous-Current Capability—so you'll enjoy film soundtracks with greater impact

Audio signals are very complex. After the amplifier outputs such signals to a speaker, the speaker itself accumulates energy. When the speaker reflexes, it sends energy back to the amplifier. The amplifier must immediately be able to supply a large amount of high current to cancel the speaker's reflex energy, and instantaneously send out the next signal. The same high current is also necessary to handle speaker impedance fluctuations, which on



occasion force an amplifier to provide four to six times its usual current load. The instantaneous current capability of even Onkyo's least expensive WRAT receivers is far better than that of most conventional units. This is because competing designs commonly have less than half the current capability. The result? The high-current capability incorporated into all Onkyo receivers means your receiver can deliver movie soundtracks with theatre-like dynamics and clarity—so you'll get the same exciting sonic slam that you experienced in the cinema.

Net-Tune™



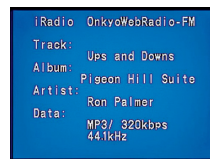
What is Net-Tune™?

Do you have MP3, WAV, or WMA files on your computer? Add new life to this existing content and enjoy it in surround sound glory. With one of Onkyo's exclusive line of home network receivers connected to your computer via a broadband router, you can easily access all your computer's music files. Simply download Net-Tune™ to your PC and, through the Net-Tune™ Central application, you're ready to truly fill your room with music. If you've already upgraded to a broadband Internet connection, then there are even more possibilities for you. Have the urge to hear pop music from Japan or the latest songs soaring up the American charts? How does instant access to radio stations around the world sound to you? Well, it's possible through the mini-revolution in the music world called Internet radio. The process is simple. Hook up your home network receiver to a router connected to your broadband modem via a high-speed Ethernet cable. Press the Net Audio button on the front of your receiver and you'll be welcomed to a world of music in your home through Internet radio.

Net-Tune™ Central



Your media distribution software. Up to now, you may have looked upon your PC as a means of sending e-mail, making spreadsheets and playing the occasional game, but when it came to music, the sound was second best. Now Onkyo can add astounding depth to your hard drive's MP3, WAV or WMA music files. Simply download Net-Tune™ Central to your PC and your music files will be liberated from the limitations of your computer's speakers. Hook your PC up to a router and then connect your home network receiver for fast and easy access to your computer's music files. Now you have transformed your computer into a music server ready to deliver sparkling surround sound.



Internet Radio

Perhaps you've been wondering how your kids are getting radio reception from Asia. Or how your flatmate always seems to find those great stations you can't find on the radio. What's the secret? It's not coming from your local FM/AM tuner. It's coming from the Internet. Even if you're an old pro at surfing the airwaves of cyberspace, the benefits of Internet radio will continue to amaze you. No longer are you limited to local access. Now you have the freedom of the kind of music you want to hear when you want to hear it. The drawback? Until now this has been limited to the audio playback capability of your computer and its speakers. We're sure you'll agree with us when we say your music deserves more.

RF-EX6

RF Receiver for TX-NR5000E

- RF receiver for use with the Onkyo RF capable remote control
- The RF receiver allows your RF remote to control your devices by radio frequency
- Up to 16 units in one system
- Integrated IR-blaster
- 4 outputs for IR-emitters
- Range up to 30 m
- 4 selectable channels
- Easy installation
- For top mounting and stand alone (available only in selected countries)



TX-NR5000E **Integra**

SILVER BLACK

THX™ Ultra2™ 7.1-Channel A/V Home Network Receiver



What Hi-Fi, United Kingdom 2005-04



Lloxx, Germany 2005-04



HomeVision, Germany 2005-04



Heimkino, Germany 2005-04



Home Cinema Choice, United Kingdom 2005-04



Audiovision, Germany 2005-02



VECTOR LINEAR SHAPING CIRCUITRY

WRAT WIDE RANGE AMP TECHNOLOGY

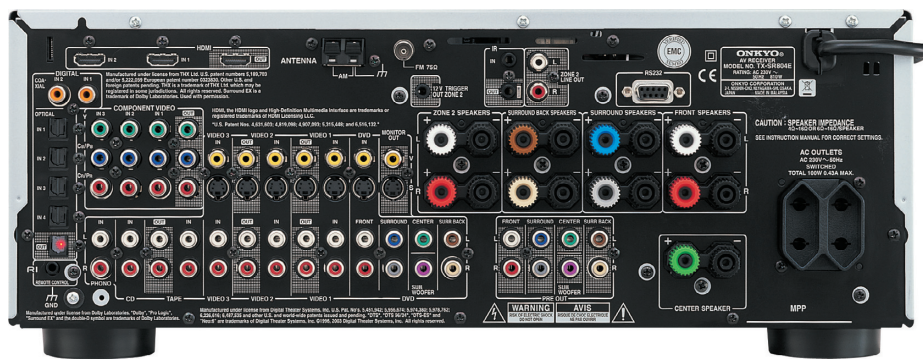
Welcome to the full potential of what a home theater receiver can be. Onkyo, the company that brought you the world's first 7.1-channel, THX™-certified receiver, now unveils what a flagship receiver should be. The TX-NR5000E provides technology and design that will impress all, from the audiophile to the casual listener. The THX™ Ultra2 badge on the front means that this receiver provides the guarantee of the highest quality product available. Onkyo's Premium Digital concept takes on a new state-of-the-art look with the addition of HDMI (High-Definition Multimedia Interface) and i.LINK (IEEE1394) pure digital ports. All the latest encoding formats--THX™ Surround EX, DTS® 96/24, Dolby® Pro Logic® IIx, and more--are here along with the knowledge that you're ready for the future with upgradable flash memory. Onkyo's exclusive Net-Tune™ protocol provides streaming music from your computer or Internet radio from the waves of cyberspace. So, for truly breathtaking performance and features from a receiver that truly deserves to be christened as a flagship, audition the TX-NR5000E and find out what true home entertainment is like.

- 200 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- THX™ Ultra2™ Certified
- THX™ Surround EX™, DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx, Dolby® Headphone, Dolby® Virtual Speaker
- VLSC (Vector Linear Shaping Circuitry)
- Net-Tune™ Function with MP3/WMA/WAV Decoding
- Ethernet Cable Plug-in Capability
- 2 High-Quality HDMI Inputs and 1 Output
- 2 i.LINK (IEEE1394) Digital Ports
- Speaker A and B Mode for 7.1 Channels
- BTL and Bi-Wiring Connectable for FL/FR with SBR/SBL
- High-Precision 32-Bit Dual DSP Chips
- 192 kHz/24-Bit DAC for all channels
- 4 Wideband Component Video Inputs (3 RCA/1 BNC) and 2 Outputs (RCA/BNC)
- Composite and S-Video to Component Video Upconversion
- Powered Zone 2 and Zone 3
- 5 12V Trigger Outputs and 3 IR Inputs/Outputs
- Bi-Directional RS232 Port for Interface Control
- Two Sets of Color-Coded Heavy-Duty Dual Banana Plug Compatible Transparent Speaker Posts
- Color-Coded 7.1 Multichannel Inputs and Pre Outs
- Elegant Aluminum-Faced Remote Control with Scroll Wheel and LCD Display

TX-SR804E

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THX™ Select2™ Certified 7.1-Channel A/V Surround Home Theater Receiver



With such complete home entertainment functionality, it would seem wrong to define the TX-SR804E by only two words—Power and Simplicity. Take power, at a rock-solid 175 watts per channel. It's only a rating, but it's something completely different when you realize that the TX-SR804E is built on Onkyo's Wide Range Amplifier Technology. WRAT provides a sound amplification framework that combines a high instantaneous current capability with a distortion-preventing circuit design to channel power for the demanding sound requirements of today's high-definition movie sources. Simplicity might not be a word that you associate with an A/V receiver of this class, but with HDMI, that perception quickly changes. HDMI is not only the most technologically advanced transport available for delivering movies, music and gaming, it's also the most straightforward. Virtually any component can be connected to the TX-SR804E, upconverted, and outputted via a single HDMI cable. Just what you need to complement your HD ready display.

- 140 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- 175 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- THX™ Select2™ Certified
- THX™ Surround EX™, DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
- VLSC (Vector Linear Shaping Circuitry) for All Channels
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- HDMI Video Upconversion (Passes Progressive Signals)
- Time Base Corrector (TBC) for Upconversion
- HDTV-Capable HDMI Video Switching (2 Inputs and 1 Output)
- HDTV-Capable (50 MHz) Component Video Switching (3 Inputs and 1 Output)
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 7 Digital Inputs (5 Optical/2 Coaxial) and 1 Output (Optical)
- 5 S-Video Inputs and 3 Outputs
- RS232 Port for Interface Control
- Powered Zone 2 and 12 V Trigger
- IR Input and Output
- Pure Audio Mode
- Optimum Gain Volume Circuitry
- Color-Coded 7.1 Multichannel Inputs (Ready for Dolby® Digital and DTS® Audio Formats for High-Definition Discs) and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Independent Crossover Adjustment for F/C/S/SB (40/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 250 ms)
- Auto Speaker Set-up with Microphone
- Backlit/Preprogrammed RI (Remote Interactive) Learning Remote with 3 Macros and Mode-Key LEDs

TX-SR674E

SILVER BLACK

7.1-Channel A/V Surround Receiver



To move to a level beyond purely functional home theater, the TX-SR674E gives you everything you need for audibly powerful, visually expressive home entertainment. The first consideration should be the essentials—like rock-steady amplifier power and performance through Wide Range Amplifier Technology (WRAT) and the cleanest audio signals generated by Vector Linear Shaping Circuitry (VLSC). And with HDTV in mind, the TX-SR674E also offers High-Definition Multimedia Interface (HDMI) and connectivity with the latest high-definition disc formats. Capping it off with Audyssey 2EQ™ room acoustics correction technology, the TX-SR674E stands out as one of the more complete A/V receivers in its class.

- 150 W/Ch., 6 Ω, 1 kHz, IEC (1 channel driven)
- Powered Zone 2/Zone 2 lineout with 12 V trigger
- DTS®, DTS® 96/24, DTS®-ES Discrete/Matrix, DTS® Neo:6 decoding
- Dolby® Digital, Dolby® Digital EX, Dolby® Pro Logic IIx decoding
- HDTV-Capable HDMI Video Switching (2 Inputs and 1 Output)
- Composite to S-Video upconversion
- HDMI and Component Video Upconversion (Passes progressive Signals)
- Time Base Corrector (TBC) for Upconversion
- Audyssey 2EQ™ to correct room acoustic problems
- A/V synchronization function (up to 100 ms in 10-ms steps)

TX-SR604E

SILVER BLACK

7.1-Channel A/V Surround Receiver



As a centerpiece of home entertainment, the TX-SR604E presents superb functionality that will be hard to match. With connectivity to virtually any A/V source or playback component you can imagine, your entertainment choices are impressive. The TX-SR604E also packs some exclusive technologies like the Audyssey 2EQ™ function which measures and corrects the room acoustics in your home—like having your own sound engineer at your command. Moreover, this 7.1-channel home theater receiver is ready for the high-definition revolution with High-Definition Multimedia Interface (HDMI) effortlessly transporting sublime video and audio, as well as 7.1-multichannel inputs accepting the most advanced surround sound formats available.

- 140 W/Ch., 6 Ω, 1 kHz, IEC (1 channel driven)
- Powered Zone 2/Zone 2 lineout with 12 V trigger
- DTS®, DTS® 96/24, DTS®-ES Discrete/Matrix, DTS® Neo:6 decoding
- Dolby® Digital, Dolby® Digital EX, Dolby® Pro Logic IIx decoding
- 2 HDMI inputs and 1 output
- Component video upconversion with Time Base Corrector (TBC)
- Composite to S-Video upconversion
- Audyssey 2EQ™ to correct room acoustic problems
- A/V synchronization function (up to 100 ms [10-ms steps])

TX-SR504E

SILVER BLACK

7.1-Channel A/V Surround Receiver



DTS 96/24 ES **DOLBY DIGITAL EX** **192 kHz/24 bit** **WRAT** **7.1 CH INPUT** **CINEMA FILTER** **RDS/RI**

Want more than a superb balance of precise surround processing, powerful amplification and signal-enhancing technologies to bring out the very best in your home theater? The TX-SR504E goes above and beyond by giving you the capability to switch up to three high-definition components for simple connection to HDTVs. So, on top of sensational DVD movies and your own music catalog, the TX-SR504E easily integrates recorded video content, live high-definition broadcasts and the most gripping console games. A perfectly laid out rear panel features color-coded ports, while the preprogrammed RI (Remote Interactive) remote control and accessible front panel controls do all the work for you.

- 130 W/Ch., 6 Ω, 1 kHz, IEC (1 channel driven)
- H.C.P.S.—high current power supply
- DTS®, DTS® 96/24, DTS®-ES Discrete/Matrix, DTS® Neo:6 decoding
- Dolby® Digital, Dolby® Digital EX, Dolby® Pro Logic IIx decoding
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz) for bass management
- A/V synchronization function (set at 0/20/40/60/80/100 ms)

TX-SR304E

SILVER

5.1-Channel A/V Surround Receiver



DTS 5.1 ES **DOLBY DIGITAL EX** **192 kHz/24 bit** **CINEMA FILTER** **RDS/RI**

The TX-SR304E 5.1-channel home theater receiver doesn't follow that well-trodden path. By giving you the connections to the A/V components on everyone's lips today—HDTVs, digital video recorders, gaming consoles, etc—the TX-SR304E wants to broaden your entertainment possibilities, not limit them to basic DVD and CD playback. Naturally, you'll want the audio quality associated with the Onkyo name. That's why we've included the circuitry and quality parts found in other Onkyo home theater receivers: Optimum Gain Volume Circuitry, 192 kHz/24-bit DACs, a 32-bit DSP chip, and an H.C.P.S. (High Current Power Supply) transformer.

- 100 W/Ch., 6 Ω, 1 kHz, IEC (1 channel driven)
- H.C.P.S.—high current power supply
- DTS®, DTS® Neo:6 5.1, Dolby® Digital, Dolby® Pro Logic II
- 192 kHz/24-bit DACs for all channels
- Advanced 32-bit processing DSP chip
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- 3 digital inputs (2 optical/1 coaxial)
- 4 composite video inputs and 2 outputs
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz) for bass management
- A/V synchronization function (0/20/40 ms)

DV-SP1000E **Integra**

SILVER BLACK

THX™ Ultra™ Certified Universal DVD-Audio/Super Audio CD Player



HomeVision, Germany
2005-04



What Home Cinema, United Kingdom
2005-04



Home Cinema, United Kingdom
2005-02



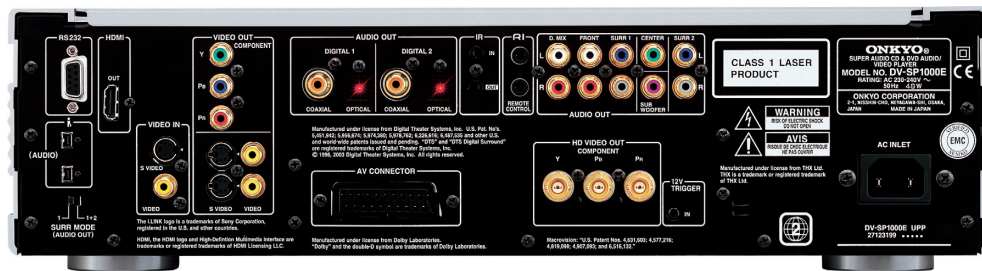
Essential Hi-Fi & Home Cinema, United Kingdom
2005-01



Home Cinema Choice, United Kingdom
2004-12




Audiovision, Germany
2004-10



Even though the receiver drives your home theater, it's still important that audio and video signals are delivered to it as effectively as possible. This is where the DV-SP1000E steps up: a rugged but sophisticated universal player that's built to perform. The DV-SP1000E's sturdy chassis and loading mechanism are specifically designed for the smoothest delivery of your movies and music and for the minimization of vibrations. And to understand the meaning of "universal", think DVD Audio and Super Audio CD, as well as analog and pure digital reproduction. The inclusion of HDMI (High-Definition Multimedia Interface) and i.LINK (IEEE1394) interface technology enables the transfer of large amounts (up to 5 Gbps) of audio and video data and easily connectable, multichannel music, respectively. Onkyo's proprietary VLSC (Vector Linear Shaping Circuitry) and Oplus' FlexScale™, which enables video scaling of PAL and NTSC discs from 480i/576i to 480p/576p/720p and 1080i, give this player the A/V playback edge that other makers fail to match. Such a remarkable universal player can't go without recognition, which is why it's THX™ Ultra™-certified for its superb standards in audio and video playback.

- THX™ Ultra Certified
- DTS® and Dolby® Digital Decoders Built in
- Plays DVD-Audio and Video, DVD-Rs, DVD-RWs, Super Audio CDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs, Audio CDs, and JPEG/Picture CDs*
- Oplus® FlexScale™ Video Scaling Capability
- 216 MHz/14-Bit Analog Devices NSV® Video DAC
- Wolfson® 192 kHz/24-Bit Audio DACs
- Dual Direct Digital Path
- Optical & Coaxial Digital Outputs
- High Quality HDMI Output
- 2 i.LINK (IEEE1394) Digital Ports
- 2 Component Video (RCA/BNC), S-Video, SCART & Composite Video

- Outputs/S-Video & Composite Video Inputs
 - 12 V Trigger Input and IR Input/Output
 - Bi-Directional RS232 Port for Interface Control
 - Rigid Aluminum Front/Side Panel with Brass Stabilizers
 - PAL and NTSC Veridic Progressive Scan
 - On-Screen Display (English, French, Spanish, German, Italian)
 - Elegant Aluminum-Faced Backlit Preprogrammed, Learning Remote Control
- * Discs that have not been properly finalized may only be partially playable or not playable at all.



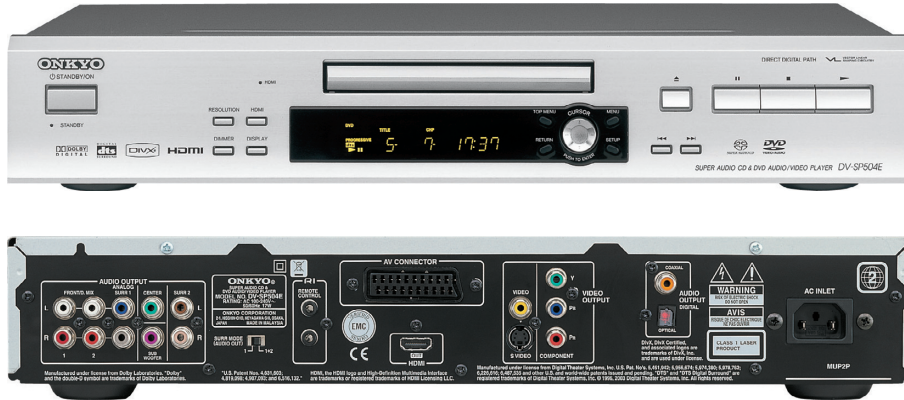
OPLUS® Flexscale™ Video Scaling Capability

Progressive scan players can at most, output an NTSC 480p signal or PAL 576p signal to compatible TVs or projectors. The DV-SP1000E will upscale conventional DVD (NTSC 480i or PAL 576i) to 480p/576p/720p or 1080i via the built-in FlexScale video scaler from Oplus. The result is a crystal clear, ultra-sharp image on HDTV compliant playback devices that will take your viewing experience to previously unattainable levels.

DV-SP504E

SILVER BLACK

Universal DVD/CD Player



DTS DIGITAL AUDIO **DD DIGITAL** **DOLBY DIGITAL** **HDMI** **DOLBY DIGITAL** **MP3** **AVX** **JPEG** **192kHz/24bit** **PROGRESSIVE SCAN**

On the back of its award-winning predecessors, the DV-SP504E universal DVD/CD player stands out as a versatile player well-positioned for the emergence of high-definition entertainment. It's the inclusion of the HDMI interface that makes the DV-SP504E a superb choice for delivering movies, high-resolution music, and more recent formats like HD JPEG (for megapixel images with enhanced resolution). Onkyo technology comes into play with Vector Linear Shaping Circuitry (VLSC) and Direct Digital Path to protect audio signals from the single most destructive elements to quality movies and music—pulse noise and noise emanating from a player's internal components.

- DTS® and Dolby® Digital Decoders Built-in
- Plays DVD-Audio and Video, DVD-R/RWs, DVD+R/RWs, Super Audio CDs, MP3-Encoded CDs, WMA-Encoded CDs, CD-R/RWs, Video CDs, Audio CDs, and JPEG- and HD JPEG-Encoded CDs
- HDMI Output for Video and Audio
- DivX® Video Playable
- HD Conversion to 720p/1080i
- 192 kHz/24-Bit Audio DAC
- 108 MHz/12-Bit Video DAC
- Direct Digital Path
- VLSC (Vector Linear Shaping Circuitry)

DV-SP404E

SILVER BLACK

DVD-Player



DTS DIGITAL AUDIO **DD DIGITAL** **DOLBY DIGITAL** **HDMI** **DOLBY DIGITAL** **MP3** **AVX** **JPEG** **96kHz/24bit** **PROGRESSIVE SCAN**

With most entry-level DVD players, you're only able to watch video playback in standard definition. The DV-SP404E, though, will playback your DVDs on HDTVs with 720p or 1080i resolution, by transmitting through HDMI (setting required). Also, with a 108 MHz/12-bit video DAC supporting progressive scan, you're assured of spectacular viewing, time after time. The DV-SP404E does what you expect from a higher-priced player, and it also serves as a capable playback device for all the CDs in your library, as well as for your computer-based digital audio files.

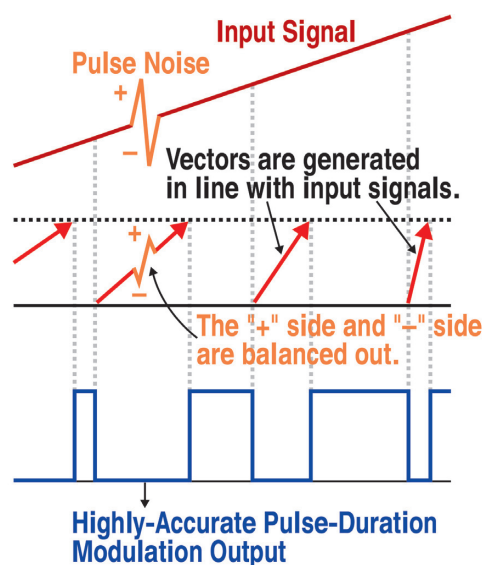
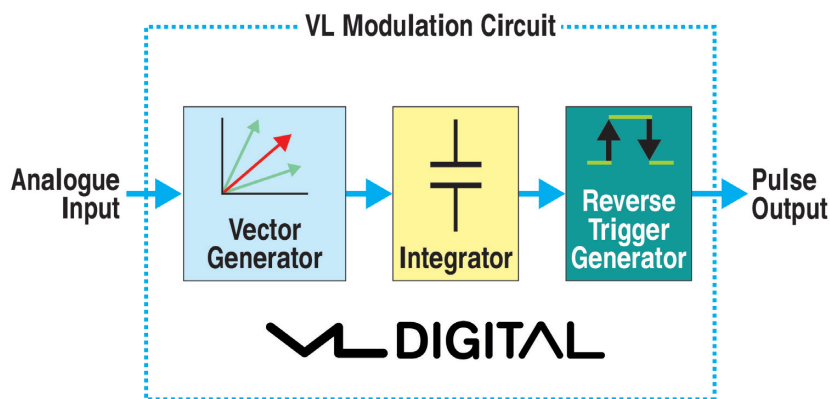
- DTS® Digital Out and Dolby® Digital
- Plays DVD-Video, DVD-R/RWs, DVD+R/RWs, MP3-Encoded CDs, WMA-Encoded CDs, CD-R/RWs, Video CDs, Audio CDs, and JPEG-Encoded CDs
- DivX® Video Playable
- HDMI Output for Video and Audio
- HD Upconversion to 720p/1080i
- 96 kHz/24-Bit Audio DAC
- 108 MHz/12-Bit Video DAC
- Coaxial Digital Outputs
- RI (Remote Interactive) Compatible Remote Control



VL Digital -- Hear What You've Been Searching For

Analog versus digital audio--there seems to be no end to this debate. However, there is one thing that is sure--audio signals are often tainted with unwanted noise in conventional amplifiers. Specifically designed to enhance the Pure Hi-Fi component range, Onkyo's digital amplifier design employs PWM (Pulse

Width Modulation) amplification and adds its exclusive VL (Vector Linear) technology to mask the noise and smooth the spikes in audio signals to reveal the subtlest nuances in movies and music. Features like this make the world of difference to quality hi-fi.





Home

Theater Packages



The HT-S990THX is the first system to meet the parameters set by THX for overall system performance as opposed to separate loudspeaker and amplifier performance. In effect, the HT-S990THX represents a high-performance, powerful multichannel solution that combines the convenience of all-in-one systems with the performance of much higher priced separate components. With full THX processing capabilities —THX ASA-derived playback modes (THX Cinema2, THX Music Mode, THX Games Mode)— you can be assured that this system brings out the full potential of surround sound for all entertainment options. Equally as important, Onkyo's Wide Range Amplifier Technology (WRAT) gives the system a perfect base for stellar amplifier performance.

HT-S990THX

SILVER

THX™ Certified 7.1-Channel Receiver/Speaker Package

HT-R940

THX™ Certified 7.1-Channel AV Surround Home Theater Receiver

- 130 W/Ch, 8 Ω, 1 kHz, IEC
- THX™ Certified
- Surround EX™, DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
- H.C.P.S. (High Current Power Supply) massive high power transformer
- 192 kHz/24-bit DACs for all channels
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- Component video upconversion with TBC (Time Base Corrector)
- WRAT (Wide Range Amplifier Technology)
- 3 S-Video inputs and 2 outputs
- 4 digital inputs (3 optical/1 coaxial)
- Subwoofer pre out
- Optimum gain volume circuitry
- Advanced 32-bit processing DSP chip
- Non-scaling configuration
- Color-coded 7.1 multichannel inputs (ready for Dolby® Digital and DTS® audio formats for high-definition discs)
- Speaker A/B drive
- Color-coded dual banana plug-compatible speaker posts (except speaker B)
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz)
- A/V sync control function (up to 100 ms)
- Compatible with RI Dock for the iPod
- Preprogrammed RI (Remote Interactive) remote control
- WHD: 435 x 151 x 377 mm
- 10.2 kg

HTP-940

7.1-Channel Speaker System

SKF-940F 2-Way Acoustic-Suspension Front Speakers

- 12 cm A-OMF diaphragm woofer x 2
- 2.5 cm soft-dome tweeter
- Magnetically shielded
- Impedance: 8 Ω
- Frequency response: 50 Hz–45 kHz
- Max. input power: 130 W
- WHD: 158 x 433 x 199 mm
- 5.3 kg

SKC-940C 2-Way Acoustic-Suspension Center Speaker

- 12 cm A-OMF diaphragm woofer x 2
- 2.5 cm soft-dome tweeter
- Magnetically shielded
- Impedance: 8 Ω
- Frequency response: 50 Hz–45 kHz
- Max. input power: 130 W
- WHD: 433 x 158 x 199 mm
- 5.3 kg

SKM-940S/SKB-940 2-Way Acoustic-Suspension Surround/Back Speakers

- 13 cm A-OMF diaphragm woofer
- 2.5 cm soft-dome tweeter
- Impedance: 8 Ω
- Frequency response: 50 Hz–45 kHz
- Max. input power: 130 W
- WHD: 200 x 275 x 169 mm
- 3.5 kg

SKW-940 Acoustic-Suspension Powered Subwoofer

- Built-in 230 W amplifier
- 30 cm cone woofer
- Auto-standby/On circuitry
- Frequency response: 20 Hz–100 Hz
- WHD: 380 x 444 x 429 mm
- 15.5 kg

* All speakers include color-coded speaker terminals and speaker cable



HT-S890 steps up—a 5.1-channel receiver/speaker package focused on providing quality sound for all entertainment sources, including high-definition DVD, HD programming, digital music and gaming. And with HDTV on everyone's lips, HDMI is the ideal connection for the world's most advanced video and audio formats. Also featuring fine-tuning options such as wide-ranging independent crossover adjustment and A/V synchronization, this package keeps the control entirely in your hands.

HT-S890

SILVER

5.1-Channel AV Surround Home Theater Receiver/Speaker Package

HT-R640

5.1-Channel AV Receiver

- 140 W/Ch, 6 Ω , 1 kHz, IEC
- DTS®, DTS® 96/24, DTS® Neo:6 5.1, Dolby® Digital, Dolby® Pro Logic® II
- H.C.P.S. (High Current Power Supply) massive high power transformer
- 192 kHz/24-bit DACs for all channels
- 2 HDMI inputs and 1 output
- Component video upconversion with TBC (Time Base Corrector)
- WRAT (Wide Range Amplifier Technology)
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- Advanced 32-bit processing DSP chip
- 6 digital inputs (4 optical/2 coaxial) and 1 optical output
- CinemaFILTER™
- Optimum gain volume circuitry
- Color-coded 5.1 multichannel inputs (ready for Dolby® Digital and DTS® audio formats for high-definition discs)
- Color-coded dual banana plug-compatible speaker posts
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz)
- A/V sync control function (up to 100 ms [10-ms steps])
- Compatible with RI Dock for the iPod
- Preprogrammed RI (Remote Interactive) remote control
- WHD: 435 x 174 x 377 mm
- 11.1 kg

HTP-440

5.1-Channel Speaker Package

SKF-330XF 2-Way Bass Reflex Front Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- Magnetically shielded
- Impedance: 6 Ω
- Max. input power: 120 W
- Frequency response: 80 Hz–22 kHz
- WHD: 148 x 202 x 101 mm
- 0.9 kg

SKC-330XC 2-Way Bass Reflex Center Speaker

- 8 cm cone woofer x 2
- 2 cm ceramic tweeter
- Magnetically shielded
- Impedance: 6 Ω
- Max. input power: 120 W
- Frequency response: 80 Hz–22 kHz
- WHD: 360 x 127 x 131 mm
- 1.6 kg

SKM-330XS 2-Way Bass Reflex Surround Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- Impedance: 6 Ω
- Max. input power: 120 W
- Frequency response: 80 Hz–22 kHz
- WHD: 148 x 202 x 101 mm
- 0.7 kg

SKW-150X Bass Reflex Powered Subwoofer

- 20 cm cone woofer
- Max. output power: 150W
- Frequency response: 30 Hz–150 Hz
- WHD: 235 x 518 x 411 mm
- 12.8 kg



Displaying every quality you'd want from a home theater receiver package—versatility, user friendliness, and quality sound—the HT-S590 should be given serious consideration. Versatile in its ability to take all your components for output to HDTV; user friendly in its ease of set-up and operation; and quality in sound from its balanced blend of controlled power and competent digital signal processing. With a combined 660 watts power output, this package packs the drive and power to make your home entertainment a memorable experience. The HT-R340 5.1-channel receiver shares a similar amplification design as Onkyo's separate home theater receivers. Also, the accompanying HTP-340 speaker package's compactness enables you to bring this package to a range of different room sizes.

HT-S590

SILVER

5.1-Channel Receiver/Speaker Package

HT-R340

5.1-Channel Receiver

- 110 W/Ch, 6 Ω , 1 kHz, IEC (1 channel driven)
- DTS®, DTS® Neo:6 5.1, Dolby® Digital, Dolby® Pro Logic® II
- 192 kHz/24-bit DACs for all channels
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz) for bass management
- Compatible with RI (Remote Interactive) Dock for the iPod
- A/V synchronization function (0/20/40 ms)
- Full-function RI (Remote Interactive) remote control

HTP-340

5.1-Channel Speaker Package

SKF-340F 2-Way Bass Reflex Front Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- 120 watts max. input
- Magnetically shielded

SKC-340C 2-Way Bass Reflex Center Speaker

- 8 cm cone woofer x 2
- 2 cm ceramic tweeter
- 120 watts max. input
- Magnetically shielded

SKM-340S 2-Way Bass Reflex Surround Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- 120 watts max. input

SKW-340 Bass Reflex Subwoofer

- 20 cm cone woofer
- 125 watts max. input
- Color-coded speaker terminals and speaker cables

A Superb Series Offering Dedicated Audio Engineering with Versatile Music Playback



Without a doubt, digital technology is making some noise in the audio industry. But rest assured that any noise--particularly signal noise--is noticeably absent from the A-933 integrated amplifier and C-733 CD player thanks to Onkyo's commitment to promoting the cleanest signals through its proprietary technologies like VL Digital, VLSC (Vector Linear Shaping Technology) and Direct Digital Path. The A-933's dual toroidal power transformers and thick bus plate support a large, stable flow of current and also work to reduce impedance. The C-733 CD player's impressive engineering enables a super signal-to-noise ratio ensuring supreme playback quality. Capping off this series is the T-433 FM/AM RDS tuner, which uses RDS and Accuclock to deliver radio frequencies that will surprise you with their precision and clarity. Use these components as they best meet your needs.

PHA-933

BLACK

Amplifier, CD Player & Tuner Package

A-933

Integrated Digital Amplifier

- 80 W/Ch, Continuous 8 Ω, 1 kHz, DIN
- Exclusive Onkyo VL (Vector Linear) Digital Technology
- All Discrete Output Stage Circuitry
- Dual Toroidal Power Transformers
- Low Impedance, Thick Bus Plate
- Tone Control (Bass/Treble/Super Bass)
- Source Direct Mode
- 6 Audio Inputs and 2 Outputs
- Precision Motor-Driven Volume Control
- A/B Speaker Selector and Outputs
- Banana Plug-Compatible Speaker Posts
- Brushed Hairline Aluminum Front Panel
- Full-Function RI (Remote Interactive) Remote Control

C-733

CD-Player

- Plays CD, CD-R and CD-RW
- VLSC (Vector Linear Shaping Circuitry)
- 192 kHz/24-bit DAC
- DLA Link
- Super Precision Clock (+/-1.5 ppm)
- 2 Optical Digital Outputs
- 25-Track Programming
- Repeat/Random/Memory Playback
- Brushed Hairline Aluminum Front Panel
- Ultra-Smooth CD Loading Mechanism
- Direct Digital Path
- Blue FL Display

T-433

FM/AM Tuner

- Automatic FM/AM Scan Tuning
- 30 FM/AM Presets
- RDS (CT/PS/RT)
- Accuclock Function
- A-933 Remote Control Compatible
- 5-Timer Mode Settings (Sleep/Play/Rec/Once/Every)
- Hi-Rigidity, Anti-Resonant Chassis
- Blue FL Display
- Brushed Hairline Aluminum Front Panel

Optional

DS-A1/DS-A2

Remote Interactive (RI) Dock for the iPod

- Connects with Onkyo RI-compatible Receivers/Amplifiers and Audio-Video Systems
- Charges iPod through AC adapter
- Brings Audiophile Quality to Digital Music Files
- Enables iPod photo Slide Shows
- Brings Remote Control to the iPod
- Auto Selector Function
- Time Play/Sleep Timer Function
- Alarm Function

Package Contents

- DS-A1 Remote Interactive Dock
- AC Adapter
- Audio, S-Video and RI Cables
- iPod Adapters
- Instruction manual

A-1VL

SILVER

Integrated Digital Amplifier



VL DIGITAL

Onkyo's A-1VL digital stereo amplifier provides superior audio performance without sacrificing quality audiophile parts and build quality. This slim, futuristic digital amplifier possesses a low-impedance design with carefully selected audio parts—large capacity, separate toroidal transformers, thick copper bus plates and high-grade transparent speaker terminals. Also, the A-1VL combines PWM (Pulse Width Modulation) amplification and exclusive VL (Vector Linear) technology to smooth the ripples (fluctuations) and eliminate the noise inherent in analog or other PWM technologies. The result is 90% efficient amplification for wide dynamic and frequency ranges as well as noticeable sound harmony.

- 100 W/Ch, 1 kHz, 8 Ω, DIN
- Exclusive Onkyo VL Digital 2-Channel Amplifier
- Separate Toroidal Transformers for L/R Channels
- High-Grade, Banana-Plug Capable, Transparent Speaker Posts
- Low-Impedance, Copper Bus Plate
- Precision Motor-Driven Volume Control
- Brass Stabilizers
- Brass Pin Jacks
- Heavy-Duty, Inlet Power Cord
- RI (Remote Interactive) Compatible Remote Control

C-1VL

SILVER

Audiophile-Grade CD Player



192 kHz/24 bit VL VECTOR LINEAR SHAPING CIRCUITRY DIRECT DIGITAL PATH

The C-1VL CD player brings together superb audio reproduction, user-friendly operability and modern design sensibility. Displaying a range of technological advancements, this player effortlessly works with and complements the A-1VL digital stereo amplifier. Onkyo's exclusive VLSC (Vector Linear Shaping Circuitry) and high-grade Wolfson™ D/A converters ensure that the signal is free from the noise that taints other players. Also, a high-purity, heavy-gauge, shielded cable guarantees a digital audio signal that is noise-free and less susceptible to flux. The C-1VL CD player appeals to the music enthusiast who won't settle for anything less than the Onkyo approach to audio excellence.

- VLSC (Vector Linear Shaping Circuitry)
- Wolfson™ 192 kHz/24 bit DAC
- Direct Digital Path
- Digital Out On/Off
- Brass Stabilizers
- Brass Pin Jacks
- Heavy-Duty, Inlet Power Cord
- High-Grade Pin Cable Included
- 3 Digital Outputs (2 Optical/1 Coaxial)
- RI (Remote Interactive) Compatible Remote Control

A-9755

SILVER BLACK

Integrated Digital Amplifier



DIGITAL RI

The benefits of digital amplification have been recognized by the audio industry for some time. With minimal power leakage, digital amplifiers can achieve a power efficiency of up to 90%. Without the need for large heat sinks, manufacturers can focus on introducing more compact, sleeker designs. By considering the fundamentals of audio reproduction and accurate analogue-to-digital conversion, Onkyo has introduced a better solution to integrated digital amplifiers--the A-9755. Utilizing Onkyo's own Vector Linear (VL) Digital technology in conjunction with a Pure Stream Power Supply (conprising two large transformers), the A-9755 represents a truly unique approach to digital amplifier design.

- 150 W/Ch, continuous 8 Ω, 1 kHz, DIN
- Pure Stream Power Supply (two transformers)
- All discrete output stage circuitry
- Tone control (Bass, Treble, Loudness On/Off)
- Discrete phono equalizer (hybrid type circuitry)
- 7 gold-plated audio inputs and 2 outputs
- Main in terminal
- Speaker A/B posts
- Compatible with RI dock for the iPod
- RI (Remote Interactive) remote control

A-9555

SILVER BLACK

Integrated Digital Amplifier



DIGITAL RI

Digital amplification enables significant power efficiency savings and supports smaller, more compact designs—obvious benefits for today's home lifestyles. With the A-9555 integrated digital amplifier, sound quality takes precedence over all else. By using Onkyo's exclusive Vector Linear (VL) Digital technology to remove any spike noise before it introduces errors into the inversion timing, it is possible to get a highly accurate analog-to-digital conversion. Also, at the heart of the A-9555 is a Pure Stream Power Supply--essentially a large power transformer--that ensures that you always have the on-demand power for the clarity and detail of a range of musical genres.

- 100 W/Ch, continuous 8 Ω, 1 kHz, DIN
- All discrete output stage circuitry
- Optimum gain volume circuitry
- Tone control (Bass, Treble, Loudness On/Off)
- Discrete phono equalizer (hybrid type circuitry)
- 7 audio inputs and 2 outputs
- Speaker A/B posts
- Banana plug-compatible speaker posts
- Compatible with RI dock for the iPod
- RI (Remote Interactive) remote control

A-9211

SILVER BLACK

Integrated Amplifier



RI

- 60 W/Ch, Continuous 4 Ω, 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Shielded Heavy-Duty Power Supply
- Discrete Output Stage Circuitry
- Aluminium-Extruded Heat Sink
- A/B Speaker Selector & Outputs
- Direct Source/Tone Bypass Switch
- 5 Audio Inputs and 2 Outputs
- Aluminium Front Panel
- RI (Remote Interactive) Compatible Remote Control

T-4555

SILVER BLACK

FM/AM RDS Tuner



RDSRI

- Tuner Board (DAB) Upgrade Capability
- FM/AM Auto Tuning
- 40 FM/AM Presets
- RDS (RT/PTY/TP)
- Direct Access Tuning (via Remote)
- RS232 Port
- IR Input/Output
- 12V Trigger Input/Output
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) System Compatible

T-4211

SILVER BLACK

Quartz Synthesized FM/AM Stereo Tuner



RDSRI

- Digital Synthesized Tuning
- High Sensitivity & Superb Selectivity
- High-Quality Front End
- 2-Mode APR (Automatic Precision Tuning)
- RDS (PTY, TP, RT, CT, PS)
- 30 RDS FM/AM Random Presets
- Selectable Character Display Input
- 3 Station-Group Presets (10 Stations Each)
- Aluminium Front Panel
- RI (Remote Interactive) System Compatible

TX-8522

SILVER BLACK

RDS FM/AM Stereo Receiver



WRAT RDSRI

WIDE RANGE AMP TECHNOLOGY

- 100 W/Ch., 4 Ω, 1 kHz, DIN; 100 W/Ch., 4 Ω, 1 kHz, IEC (2 channels driven); 65 W/Ch., 8 Ω, 1 kHz, IEC (2 channels driven)
- Wide Range Amplifier Technology (WRAT)
- High-current, low-impedance drive
- Discrete output stage circuitry
- A/B speaker selector and outputs to hook up an additional pair of speakers
- IR input and output for second room and other component control
- Independent treble, bass and balance controls
- 3 audio and 2 A/V inputs

TX-8222

SILVER BLACK

RDS FM/AM Stereo Receiver



WRAT RDSRI

WIDE RANGE AMP TECHNOLOGY

- 70 W/Ch., 4 Ω, 1 kHz, DIN; 70 W/Ch., 4 Ω, 1 kHz, IEC (2 channels driven)
- Wide Range Amplifier Technology (WRAT)
- High-current, low-impedance drive
- Discrete output stage circuitry
- A/B speaker selector and outputs to hook-up an additional pair of speakers
- IR input and output for second room and other component control
- Independent treble, bass and balance controls
- Cassette tape dubbing capability

TA-RW255

SILVER BLACK

Double Cassette Deck



DOLBY B-C TYPE NR RI

- Auto-reverse on both Decks; Auto-Reverse Record on Deck B
- Dolby® B and C Noise Reduction
- CD Synchro Recording
- 8-Segment FL Peak Level Meters
- Peak Hold
- Auto Tape Selector
- Auto Spacing
- 4-digit Electronic Tape Counter
- Aluminium Front Panel
- RI (Remote Interactive) System Compatible

DX-7555

SILVER BLACK

CD Player



MP3 (192 kHz/24 bit) **RI** VECTOR LINEAR SHAPING CIRCUITRY DIRECT DIGITAL PATH **COMPACT DISC DIGITAL AUDIO**

- Plays audio CDs, MP3 CDs, CD-Rs/CD-RWs
- VLSC (Vector Linear Shaping Circuitry)
- Super Precision Clock (± 1.5 ppm)
- Digital filter and phase control
- Wolfson® 192 kHz/24-bit DAC
- Direct Digital Path
- Headphone jack with volume control
- Quick navigation for MP3 CD playback
- 25-step memory playback and 4 repeat modes
- RI (Remote Interactive) system compatible

DX-7333

SILVER BLACK

CD Player



COMPACT DISC DIGITAL AUDIO **RI**

- Proprietary AccuPulse Quartz System
- Unique Next Selection Feature
- Memory Reverse (Program Delete)
- Peak-Level Search via Remote
- 36-Track Random Memory
- 5 Repeat Modes (Full/Single/Memory/Shuffle/A-B)
- 2 Optical Digital Outputs
- Headphone Jack with Volume Control
- Brushed Hairline Aluminium Front Panel
- RI (Remote Interactive) Remote Control

DX-C390

SILVER BLACK

6-Disc CD Carousel Changer



MP3 (192 kHz/24 bit) **RI** VECTOR LINEAR SHAPING CIRCUITRY DIRECT DIGITAL PATH **COMPACT DISC DIGITAL AUDIO** **6 DISC** VQA

- Plays Audio CDs, MP3 CDs, CD-R/RWs
- VLSC (Vector Linear Shaping Circuitry)
- VQA (Vector Quantizer Audio) Conversion Technology
- Change up to 5 Discs During Play
- 192 kHz/24-Bit Audio DAC
- Direct Digital Path
- 2 Digital Outputs (Optical/Coaxial)
- 40-Track Programming
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) Remote Control

CS-V815

SILVER

Universal A/V Receiver System













DIGITAL RDS

RI

For a relatively diminutive A/V receiver system, the CS-V815 really does cover all the bases. The ability to handle breakthrough audio formats, DVD-Audio and Super Audio CD, regular CDs, and recorded digital MP3 files is impressive enough. But the CS-V720 will also enable you to playback progressive scan DVD sources with a virtual surround sound-field, and it also takes DTS® and Dolby® Digital sources into the full 5.1-channel realm with connection to a power (main) amplifier and speakers. With its space-saving qualities and versatility, the CS-V815 will neatly integrate into virtually any space of your choice and give you greater entertainment options.

- 18 W/Ch, Continuous 4 Ω, 1 kHz
- Plays DVD-Audio & Video, DVD-R/RWs, Super Audio CDs, MP3-Encoded CDs, WMA-Encoded CDs, CD-R/RWs, Video CDs, Audio CDs, and JPEG-Encoded CDs*
- DTS®, Dolby® Digital, Dolby® Pro Logic® II
- VLSC (Vector Linear Shaping Circuitry)
- WRAT (Wide Range Amplifier Technology)
- 192 kHz/24-Bit DAC
- 108 MHz/12-Bit Video DAC
- Advanced 32-Bit Processing DSP Chip
- Discrete Output Stage Circuitry
- Optimum Gain Volume Circuitry
- Component Video Output
- Front Virtual Surround Function
- Progressive Scan Video Output
- 40 FM/AM Presets
- Compatible with RI Dock for the iPod
- WHD: 205 x 147 x 353 mm

- 5.4 kg
- * Discs that have not been properly finalized may only be partially playable or not playable at all.
- Note: Specifications subject to change
- D-N7BX(Y) 2-Way Bass Reflex Speakers**
- 13 cm A-OMF Monocoque Diaphragm Woofer
- 3 cm Ring-Drive Tweeter
- Aero Acoustic Drive for Powerful and Natural Sound
- V-Line Edge to Counteract Unwanted Diaphragm Vibration
- Banana Plug-Compatible Speaker Posts
- Magnetically Shielded
- Impedance: 4 Ω
- Max. Input Power: 70 W
- Frequency Response: 50 Hz–100 kHz
- WHD: 167 x 290 x 246 mm
- 3.9 kg

CS-715

TITANIUM

CD-Receiver System

Separate Collection

2006-2007



MP3 **192 kHz/24 bit** **VECTOR LINEAR SHAPING CIRCUITRY** **DIGITAL RDS** **DISC** **RI A-OMF**

At first glance, the CS-715 will impress you with its handsome, titanium-colored aluminum front panel and a robustness of build rarely seen among mini audio systems. Give it some airplay, and you'll find its switching amplifier design—employing VL (Vector Linear) Digital technology for accurate conversion—reproduces music with remarkable clarity. On the CD drive side, Vector Linear Shaping Circuitry (VLSC) further ensures you're getting the purest sound possible. With an emphasis on high-instantaneous current capability, the CS-715 has the power to achieve the high performance standards that most mini systems fail to reach.

- 50 W/Ch. Continuous 4 Ω , 1 kHz
- Plays CDs and MP3-Encoded CDs
- VL (Vector Linear) Digital Technology
- Wolfson® 192 kHz/24-Bit DAC
- VLSC (Vector Linear Shaping Circuitry)
- High Instantaneous Current Capability
- Discrete Output Stage Circuitry
- 3 Gold-Plated Audio Inputs and 2 Outputs
- 1 Front-Panel Audio Input
- Subwoofer Pre-Out
- Super Bass
- Tone Control
- 25-Track Programming
- 4 Timer Mode Settings (Play or Rec/Once or Every)
- Sleep Timer
- 40 FM Presets
- RDS (PS/RT)
- Aluminum Front Panel
- Flat Underside Designed to Prevent Vibrations

- Compatible with RI Dock for the iPod
- Full-Function RI (Remote Interactive) Remote Control
- WHD: 205 x 116 x 335 mm
- 4.6 kg
- D-N10BX(D/B/S) 2-Way Bass Reflex Speakers**
- 13 cm A-OMF Monocoque Diaphragm Woofer
- 3 cm Ring-Drive Tweeter
- Aero Acoustic Drive for Powerful and Natural Sound
- V-Line Edge to Counteract Unwanted Diaphragm Vibration
- Banana Plug-Compatible Speaker Posts
- Magnetically Shielded
- Impedance: 4 Ω
- Max. Input Power: 70 W
- Frequency Response: 45 Hz–100 kHz
- WHD: 167 x 298 x 247 mm
- 4.2 kg

CS-515A

SILVER BLACK

CD Receiver System



MP3 **192 kHz/24 bit** **WRAT** WIDE RANGE AMP TECHNOLOGY **DIGITAL RDS** **COMPACT disc** **RI** **A-OMF** MONOCOQUE

Like its predecessor, the CS-515 CD receiver system embodies an approach to sound—detailed, balanced and spacious—that belies its size. The CD receiver itself exudes an air of solidity, with its concave aluminum front panel. In the engine room, audio quality is promoted with the inclusion of a Wolfson® 192 kHz/24-bit DAC. The CS-515's relative power enlivens CD playback and gives your MP3 files an edge they've been missing. It's improvement by increments for the receiver, but a brand new direction for the D-N9BX 2-way, bass reflex speakers that round out this system and make it a fine investment for the home.

(Available in Silver / Beech in selected markets only.)

- 20 W/Ch, Continuous 4 Ω, 1 kHz, IEC
- Plays CDs and MP3-Encoded CDs
- Wolfson® 192 kHz/24-Bit DAC
- WRAT (Wide Range Amplifier Technology)
- VLSC (Vector Linear Shaping Circuitry)
- High-Current, Low-Impedance Drive
- Discrete Output Stage Circuitry
- 4 Audio Inputs and 2 Outputs
- Direct Mode
- Subwoofer Pre-Out
- Super Bass
- Tone Control
- 25-Track Programming
- 4 Timer Mode Settings (Play or Rec/Once or Every)
- Sleep Timer
- 40 FM/AM Presets
- RDS (PS/RT)
- Aluminum Front Panel
- Compatible with RI Dock for the iPod
- Full-Function RI (Remote Interactive) Remote Control
- WHD: 205 x 116 x 353 mm
- 4.3 kg
- **D-N9BX(D/B/S) 2-Way Bass Reflex Speakers**
- 13 cm A-OMF Monocoque Diaphragm Woofer
- 3 cm Ring-Drive Tweeter
- Aero Acoustic Drive for Powerful and Natural Sound
- V-Line Edge to Counteract Unwanted Diaphragm Vibration
- Banana Plug-Compatible Speaker Posts
- Magnetically Shielded
- Impedance: 4 Ω
- Max. Input Power: 70 W
- Frequency Response: 45 Hz–100 kHz
- WHD: 167 x 298 x 247 mm
- 4.1 kg



CS-315

SILVER BLACK

CD Receiver System

Separate Collection

2006-2007



MP3 **WRAT** **RDS** **RI** **A-OMF**
WIDE RANGE AMP TECHNOLOGY DIGITAL AUDIO MONOCOQUE

The biggest challenge for compact audio systems is to take any music genre and reproduce a detailed, balanced audio output. Judging the CS-315 CD receiver system on that basis alone, we have a winner. Anchored around Onkyo's Wide Range Amplifier Technology (WRAT), the CS-315 excels in revealing the nuance of CDs and MP3 tracks recorded to disc, and even your iPod's tracks. Don't forget its mobility—this system will easily slot into most spaces that you choose. Forming a competent audio chain with the distinctive D-N7BX 2-way, bass reflex speakers, the CS-315 creates all the right impressions.

Amplifier Features

- 19 watts per channel minimum into 4 Ω , 1 kHz, IEC (2 channels driven)
- Wide Range Amplifier Technology (WRAT)
- High-current, low-impedance drive
- Discrete output stage circuitry
- Optimum Gain Volume Circuitry
- 3 audio inputs (1 front panel) and 1 output
- Subwoofer pre out

CD Player Features

- Plays audio CDs and MP3s burnt to CD-Rs and CD-RWs
- Single-bit DAC
- 4 play modes (Normal/Memory/Random/Repeat)
- Navigation/All Folder modes for selecting and playing MP3 files
- Memory playback (25-track programming)

Tuner & Other Features

- Direct function
- Super Bass function
- 4-mode timer (Play or Rec/Once or Every)
- Sleep timer

- Accuclock
 - RDS (PS/RT)
 - Auto preset function with 40 FM/AM selections
 - Preset naming (up to 8 characters)
 - Aluminum front panel
 - Headphone jack
 - Screw-type banana plug-compatible binding posts
 - Compatible with RI Dock for the iPod
 - RI (Remote Interactive) remote control
- ### D-N7BX 2-Way Bass Reflex Loudspeakers
- 13 cm A-OMF Monocoque diaphragm woofer
 - 3 cm ring-drive tweeter
 - Aero Acoustic Drive for powerful and natural sound
 - V-Line Edge for responsive, hi-fidelity sound
 - Magnetically shielded
 - Screw-type banana plug-compatible binding posts
 - Impedance: 4 Ω
 - Max. input power: 70 W
 - Frequency response: 50 Hz-100 kHz



CBX-100

BLACK

CD Receiver System



MP3 RDS RI

Sometimes the best mini audio systems come right out of left field. The CBX-100 is a perfect example. With its retro-modern styling, this CD receiver system is designed to provide the perfect mix of CD, MP3, iPod or radio playback. Easily placed where you wish, the CBX-100 would feel equally as comfortable in your bedroom, living room, kitchen or office. Remember, there's no need for stand-alone speakers—this all-inclusive system packs everything into its two-tone, vented design. The speakers even include Onkyo's OMF diaphragms—a distinct advantage over the low-cost materials found in other all-in-one mini systems. With enough functionality for you to tune the sound to your own preferences, the CBX-100 is a delight to the senses.

CD Receiver Features

- 5 Watts for Each Channel
- Plays CDs, MP3-Encoded CDs and WMA-Encoded CDs
- Slot-in CD Loading Mechanism
- 3-Mode Preset EQ Function (Dynamic/Vocal/Smooth)
- Tone Control (Bass/Treble) and Super Bass Function
- 25-Track Programming
- Random/Memory Play Modes
- 2 Repeat Modes (Track/Full)

Tuner & Other Features

- 4 Time Mode Settings (Play or Rec/Once or Every)
- Sleep Timer
- Snooze Function
- 30 FM/AM Presets
- Automatic FM/AM Scan Tuning
- RDS & AccuClock
- Battery-Free Memory Backup
- Headphone Jack
- Compatible with RI Dock for the iPod
- RI (Remote Interactive) Compatible Remote Control

Speaker Features

- 8 cm OMF Diaphragm Woofer
- Aero Acoustic Drive for Powerful and Natural Sound
- Separated Speaker Enclosures for Improved Sound Quality (iPod functionality via optional Remote Interactive Dock)

DS-A1

WHITE

RI Technology Offers Remote Control of iPod

DS-A1

Remote Interactive (RI) Dock for the iPod

- Connects with Onkyo RI-compatible Receivers/Amplifiers and Audio-Video Systems
- Charges iPod through AC adapter
- Brings Audiophile Quality to Digital Music Files
- Enables iPod photo Slide Shows
- Brings Remote Control to the iPod
- Auto Selector Function
- Time Play/Sleep Timer Function
- Alarm Function

Package Contents

- DS-A1 Remote Interactive Dock
- AC Adapter
- Audio, S-Video and RI Cables
- iPod Adapters
- Instruction manual



Doing More with Your iPod -- Through Onkyo's Imaginative Sight and Sound

Home Style Components

DS-A2

WHITE BLACK

DS-A2

Remote Interactive Dock

- Superb Audio and Video Playback - Not just for music, but video and photos too
- Control From Afar - Now with its own dedicated remote control
- Charged and Ready to Go - Perfect as a charging station
- Easier Viewing of Your Track Lists
- Displays music track lists with information about artists, albums, songs and genres
- Remote Interactive (RI) Capabilities
- Brings Auto Selector, Time Play/Sleep Timer, Alarm functions
- WHD: 112 x 60 x 112 mm
- 230 g
- iPod Models Compatible with the DS-A2 (as of July 2006), 5th generation iPod, iPod nano, iPod photo, iPod mini, 4th generation iPod with click wheel, 3rd generation iPod with touch wheel



D-312E

BEECH

2-Way, Bass Reflex Speakers



- New, improved A-OMF diaphragm for better transient response
- Supported by a large voice coil (65 mm) for power handling
- Oversized, high-strength ferrite magnet to maintain drive power
- Die cast frame construction to prevent vibrations
- New V-Line Edge to remove damaging vibrations from diaphragm's surface
- Highly responsive ring-drive tweeter for high-frequency sounds
- Aero Acoustic Drive to cut off high frequency interference
- Wood-finished MDF cabinet
- Independent network circuit to mitigate woofer/tweeter interference
- Banana-plug compatible, bi-wiring speaker posts
- Frequency Response: 34 Hz-100 kHz
- Maximum Input Power: 200 W

D-302E

MAHAGON

2-Way, Bass Reflex Speaker



- New A-OMF diaphragm for better transient response
- Supported by a large voice coil (6,5 cm)
- Implementing a large, high-strength ferrite magnet
- Die cast frame construction to prevent vibrations
- New "V-Line" Edge to remove mitigating vibrations
- Highly responsive ring-drive tweeter for high-frequency sounds
- Equalizer for improved transient response
- Aero Acoustic Drive to cut off high frequency interference
- Wood-finished MDF cabinet
- Network circuit to mitigate woofer/tweeter interference
- Gold-plated, banana-plug compatible speaker posts
- Frequency Response: 34 Hz-100 kHz
- Maximum Input Power: 200 W

D-TK10

MAHAGON

2-Way, Bass Reflex Speakers



- Takamine Voicing Acoustic Technology construction
- Solid, stylish mahogany cabinet with enhanced musicality
- New, improved 10 cm A-OMF Monocoque diaphragm to support piston motion range
- Highly responsive 3 cm ring-drive tweeter to take frequency response out to 100 kHz
- Aero Acoustic Drive to cut off low and high frequency interference
- High-quality network circuit supported by quality parts
- Magnetically shielded
- Gold-plated, banana-plug compatible speaker posts

D-112E

BEECH

2-Way, Bass Reflex Speaker



- New, improved 10-cm A-OMF Monocoque diaphragm to support wider piston motion range
- Highly responsive 3-cm ring-drive tweeter to prevent breakup
- Heavy-duty 3.8-cm voice coil for woofer
- V-Line Edge to remove unnecessary sounds from the diaphragm's surface
- Aero Acoustic Drive to cut off low and high frequency interference
- High-quality network circuit with S.G.L. (Steady Ground Level)
- Magnetically shielded
- Gold-plated, banana plug-compatible speaker posts

HDMI™ (High-Definition Multimedia Interface)

HDMI™

The latest in digital interface technology is here and it goes by the name of HDMI (High-Definition Multimedia Interface). This high-bandwidth interface supports not only remarkable amounts of uncompressed digital video but audio as well. Up to 5 Gbps of data, more than twice what's needed for a high-definition movie with surround sound, can be handled with room for future requirements.



All this data is kept in the digital domain as there are no D/A or A/D conversions needed to ensure the highest sound and video quality available. Unparalleled amounts of compressed or uncompressed digital audio and video—up to 5 Gbps of data—can be handled with just one high-speed cable.

192 kHz/24-Bit Audio DACs

192 kHz / 24 bit



Performing at a full 192 kHz/24-bit level of resolution, these state-of-the-art digital-to-analog converters deliver audio performance that is second to none. They boast a higher dynamic range than standard D/A converters, and are virtually resistant to clock jitter -- which means you'll enjoy the best performance

possible from DVD-Audio discs and Super Audio CDs and cleaner sound from your regular DVDs and CDs.

CinemaFILTER™

CINEMA FILTER

The tonal balance of a film soundtrack can be edgy and bright when played back over audio equipment in your home - this is because film soundtracks are designed to be played back in large theaters, using commercial equipment. Onkyo has developed its own solution that restores the correct tonal balance of a movie soundtrack in the smaller environs of your home theater.

DVD-Audio -- Unprecedented Fidelity

DVD AUDIO/VIDEO

DVD-Audio's dataloss-free reproduction of 192 kHz/24-bit 2-channel stereo or 96 kHz/24-bit 6-channel surround sound recreates music with such detail and clarity, it sounds as if every recording is being played live in your home. DVD-Audio can store 1,100 times more information per second than a CD. And with a super-high frequency rate of 192,000 samples per second -- 4.3 times greater than an audio CD -- you get 256 times the resolution, a frequency response up to 96 kHz, and an extraordinary dynamic range of up to 144 dB -- which translates into a musical experience that goes beyond just listening!

ONKYO'S Micro Fiber (OMF), A-OMF & A-OMF Monocoque

OMF ONKYO Micro Fiber Diaphragm



OMF, made from a pure cotton weave to absorb vibrations, was first developed to create a thick yet rigid diaphragm that enables an extremely fast, accurate response. The next stage saw the advent of A-OMF, which incorporates a PEN (polyethylene naphthalate) layer with a flexible cotton weave that makes speaker cones even stronger and more resistant to heat. We then added an aramid layer to create NEW A-OMF. The evolution has been taken a step further with A-OMF Monocoque--essentially sharing the same material composition as A-OMF but forming a single, continuous cover over the cone. All diaphragm types achieve improved midrange clarity and imaging for an astonishingly vivid, natural sound.

i.LINK™ Digital Audio Interface (a.k.a. IEEE1394)

i.LINK™



The reduction of up to six analogue cables to one single digital cable capable of carrying multi-channel audio is here. i.LINK (a.k.a. IEEE1394) provides the high-bandwidth, high-resolution signal transfer of audio that multi-channel formats like DVD-Audio and Super Audio CD have been waiting for. Even better, content stays in the pure digital realm as there are no unnecessary D/A or A/D conversions performed. Experience the pure digital multi-channel music experience you've been waiting for.

Premium Digital Philosophy

Premium Digital

This philosophy represents Onkyo's all-inclusive approach to building digital components that incorporate our core technologies, high-quality parts and a focus on performance. It's all part of a comprehensive formula that enables us to offer products recognized for audio excellence, superior construction, a high level of reliability and ease of use.

PAL/NTSC Veridic Progressive Scan

VERIDIC PROGRESSIVE SCAN

Most DVDs are "progressive" -- meaning they produce video in complete frames. But to be compatible with all TVs, the DVD signal must be interlaced -- a method where the picture is split into two fields and then blurred together to look like one. Progressive Scan, however, retrieves the original progressive signal, and on such compatible displays as HDTV, Plasma or digital TV and high-end projectors, "paints" all the visible lines on the screen in a single pass -- so you'll enjoy a scan-line-free image, with spectacularly clear color, no motion artifacts, and details so sharp they seem as if they're etched onto the screen.

Analog Devices® 216 MHz/14-Bit NSV™ Video DAC

NSV PRECISION VIDEO



A crucial factor in achieving clear, pristine digital video playback is the video D/A converter in your DVD player. The state-of-the-art 216 MHz/14-bit video DAC from Analog Devices featured in the DV-SP1000E gives you the finest artifact-free picture available. Features such as 4x oversampling and Noise Shaped Video (NSV®) dramatically reduce noise interference to the video signal, so you can enjoy even the most subtle of nuances in your favorite movies.

Oplus® FlexScale™ Video Scaling Capability

FLEX SCALING

Authorized by ©PLUS



While HD-DVD with a native resolution of over NTSC 480p or PAL 576p is still on the drawing board, you can experience HD level 720p and 1080i via FlexScale™ video scaling capability from Oplus®. Built in to the DV-SP1000E, and thus eliminating the need for costly external scalars, FlexScale™ takes NTSC 480i or PAL 576i DVDs beyond normal progressive scan players and into the HD domain by enabling 720p or 1080i output through the HDMI (High-Definition Multimedia Interface) out on the rear.

Super Audio CD -- Precision Clarity

SUPER AUDIO CD

Super Audio CD gives you the next step in the evolution of pristine sound. All channels provide for up to 100 kHz frequency response and a sampling rate of 2.822 MHz—that's 64 times that of a regular CD! A multichannel SACD disc can provide you with up to 6 channels of high-resolution audio in addition to a regular CD layer for playback on any existing CD player.

FEATURES

A/V RECEIVERS	TX-NR5000E	TX-SR804E	TX-SR674E	TX-SR604E	TX-SR504E	TX-SR304E	
POWER SPECIFICATIONS							
POWER OUTPUT**1	FRONT L/R (6 , 1 kHz, DIN) 200 W/Ch CENTER (6 , 1 kHz, DIN) 200 W/Ch SURROUND L/R (6 , 1 kHz, DIN) 200 W/Ch (L/R) SURROUND BACK (6 , 1 kHz, DIN) 260 W/Ch 8 (FRONT)	200 W/Ch 200 W 200 W/Ch 200 W/Ch (L/R) 175 W/Ch	140 W/Ch; 175 W/Ch ² 140 W/Ch; 175 W/Ch ² 140 W/Ch; 175 W/Ch ² 140 W/Ch (L/R); 175 W/Ch (L/R) ² 125 W/Ch	125 W/Ch; 150 W/Ch* ³ 125 W; 150 W* ³ 125 W/Ch; 150 W/Ch* ³ 125 W/Ch (L/R); 150 W/Ch (L/R) ³ 165 W/Ch 105 W/Ch	125 W/Ch; 140 W/Ch* ³ 125 W; 140 W* ³ 125 W/Ch; 140 W/Ch* ³ 125 W/Ch (L/R); 140 W/Ch (L/R) ³ 165 W/Ch 105 W/Ch	100 W/Ch; 130 W/Ch* ³ 100 W; 130 W* ³ 100 W/Ch; 130 W/Ch* ³ 100 W/Ch (L/R); 130 W/Ch (L/R) ³ 140 W/Ch 95 W/Ch	90 W/Ch; 100 W/Ch* ³ 90 W; 100 W* ³ 90 W/Ch; 100 W/Ch* ³ 125 W/Ch 85 W/Ch
AMPLIFIER DESIGN							
IDENTICAL FULL-BANDWIDTH CHANNELS	7	7	7	7	7	5	
REDUCED NFB (NEGATIVE FEEDBACK) DESIGN	✓	✓	✓	✓	✓	✓	
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓	✓	✓	✓	✓	✓	
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)	✓	✓	✓	✓	✓	✓	
NON-SCALING CONFIGURATION	✓	✓	✓	✓	✓	✓	
DACS	192 kHz/24-Bit x 8	192 kHz/24-Bit x 8	192 kHz/24-Bit x 8	192 kHz/24-Bit x 8	192 kHz/24-Bit x 8	192 kHz/24-Bit x 6	
HIGH CURRENT, LOW IMPEDANCE DRIVE	✓	✓	✓	✓	✓	✓	
ALL DISCRETE OUTPUT STAGE CIRCUITRY	✓	✓	✓	✓	✓	✓	
OPTIMUM GAIN VOLUME CIRCUITRY	✓ (Linear)	✓	✓	✓	✓	✓	
DIGITAL UPSAMPLING	✓	✓	✓	✓	✓	✓	
HOME THEATER FEATURES							
THX™ CERTIFIED	✓ (Ultra2)	✓ (Select2)					
EXTENDED FREQUENCY RESPONSE (+1 dB, -3 dB)	5 Hz-100 kHz	5 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	5 Hz-100 kHz	10 Hz-50 kHz	
DTS®, DTS®-ES™ DISCRETE/MATRIX, DTS® 96/24	✓	✓	✓	✓	✓	✓ (DTS®)	
DTS® Neo:6	✓	✓	✓	✓	✓	✓ (5.1)	
DOLBY® DIGITAL, DOLBY® DIGITAL EX™	✓	✓	✓	✓	✓	✓ (Dolby® Digital)	
DOLBY® PRO LOGIC® IIx	✓	✓	✓	✓	✓	✓ (Pro Logic II)	
AUTO SPEAKER SET-UP WITH MICROPHONE	✓	✓	✓ (Audyssey 2EQ™)	✓ (Audyssey 2EQ™)	✓	✓	
A-FORM LISTENING MODE MEMORY	✓	✓	✓	✓	✓	✓	
HDMI UPCONVERSION	✓	✓	✓	✓	✓	✓	
COMPOSITE TO S-VIDEO UPCONVERSION	✓	✓	✓	✓	✓	✓	
COMPOSITE AND S-VIDEO TO COMPONENT VIDEO UPCONVERSION	✓	✓	✓	✓	✓	✓	
TBC (TIME BASE CORRECTOR)	✓	✓	✓	✓	✓	✓	
MULTICHANNEL INPUTS	7.1 x 2	7.1	7.1	7.1	7.1	5.1	
CINEMA FILTER™	✓	✓	✓	✓	✓	✓	
DIGITAL SOUNDFIELD PROCESSING	✓	✓	✓	✓	✓	✓	
LATE NIGHT MODE	✓	✓	✓	✓	✓	✓	
COLOR-CODED SPEAKER TERMINALS	✓	✓	✓	✓	✓	✓	
ON-SCREEN DISPLAY	✓	✓	✓	✓	✓	✓	
ADJUSTABLE DIGITAL DELAY	✓	✓	✓	✓	✓	✓	
CROSSOVER ADJUSTMENT	✓	✓	✓	✓	✓	✓	
INDEPENDENT CROSSOVER ADJUSTMENT FOR F/C/S/SB	✓	✓	✓	✓	✓	✓	
A/V SYNC	✓	✓	✓	✓	✓	✓	
NETWORK FEATURES							
NET-TUNE™	✓	✓	✓	✓	✓	✓	
ETHERNET PORT	✓	✓	✓	✓	✓	✓	
NUMBER OF PRESETS (INTERNET RADIO)	30						
INPUTS/OUTPUTS							
i.LINK DIGITAL PORTS	2						
HDMI INPUTS/OUTPUT	2/1	2/1	2/1	2/1			
AUDIO AND AV INPUTS	9/5	3/5	2/5	2/5	2/4	2/4	
HDTV-READY COMPONENT VIDEO INPUTS/OUTPUTS	4/2	3/1	3/1	3/1	3/1	3/1	
FRONT-PANEL VIDEO INPUT (WITH S-VIDEO)	✓	✓	✓	✓	✓ (Composite)	✓	
S-VIDEO INPUTS/OUTPUTS	7/4	5/3	5/3	5/3	3/2		
DIGITAL INPUTS	7 Optical (1 Front panel) 6 Coaxial	5 Optical (1 Front panel) 2 Coaxial	4 Optical (1 Front panel) 2 Coaxial	4 Optical (1 Front panel) 2 Coaxial	3 Optical 1 Coaxial	2 Optical 1 Coaxial	
DIGITAL OUTPUTS	2 Optical/2 Coaxial	1 Optical	1 Optical	1 Optical			
RS232 CONTROL PORT	✓	✓	✓	✓	✓	✓	
IR INPUTS/OUTPUTS	3/3	1/1	1/0	1/0			
PRE OUTS							
FRONT L/R, CENTER	✓	✓	✓	✓	✓	✓	
SURROUND L/R	✓	✓	✓	✓	✓	✓	
SURROUND BACK	✓ (L/R)	✓ (L/R)	✓	✓	✓	✓	
SUBWOOFER	✓ (2)	✓	✓	✓	✓	✓	
OTHER FEATURES							
DOT-MATRIX DISPLAY	✓	✓	✓	✓	✓	✓	
DISPLAY DIMMER	4 Levels	3 Levels	3 Levels	3 Levels	3 Levels	3 Levels	
PURE AUDIO MODE	✓	✓	✓	✓	✓	✓	
DUAL BANANA PLUG-COMPATIBLE SPEAKER POSTS	✓	✓	✓	✓	✓ (Except SP-B)	✓	
SLEEP TIMER (90 MINUTES; 10-MIN STEPS)	✓	✓	✓	✓	✓	✓	
PHONO INPUT	✓	✓	✓	✓	✓	✓	
HEADPHONE JACK	✓	✓	✓	✓	✓	✓	
ZONE 2 LINE OUT	✓ (Audio/Video)	✓	✓	✓	✓	✓	
POWERED ZONE 2	✓ (and Zone 3)	✓	✓	✓	✓	✓	
12 VOLT TRIGGERS	5	1 (Zone 2)	1 (Zone 2)	1 (Zone 2)	✓	✓	
SPEAKER A/B DRIVE	✓	✓	✓	✓	✓	✓	
TUNER FEATURES							
DAB (DIGITAL AUDIO BROADCASTING)							
NUMBER OF PRESETS (FM/AM)	40	40	40	40	30	30	
RDS (RADIO DATA SYSTEM)	✓	✓	✓	✓	✓	✓	
CONTROL							
RI REMOTE CONTROL	Prepro/Learning/ Backlit	Prepro/Learning/ Backlit	Prepro	Prepro	Prepro	✓	
MACRO FUNCTION	✓	✓	✓	✓	✓	✓	
ABSOLUTE/RELATIVE VOLUME DISPLAY	✓	✓	✓	✓	Absolute	Absolute	
INTELLI VOLUME	✓	✓	✓	✓	✓	✓	
COLOR	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver	

*1 Channels are measured separately. *2 Calculated on basis of IHF Dynamic headroom. *3 1 channel driven, IEC.

FEATURES

DVD/CD PLAYERS	
THX™ CERTIFIED	✓ (Ultra)
DVD-AUDIO PLAYBACK	✓
SUPER AUDIO CD PLAYBACK	✓
DTS®/DOLBY® DIGITAL/MPEG/DIGITAL AUDIO OUTPUT	✓
DIRECT DIGITAL PATH	✓ (Dual)
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)	✓
PROGRESSIVE SCAN (PAL/NTSC)	✓
HDMI OUTPUT	✓
OPUS® FLEXSCALE™ VIDEO SCALING	✓
i.LINK DIGITAL PORT	✓
96 kHz-48 kHz SELECTABLE DIGITAL OUTPUT	✓
COMPOSITE VIDEO OUTPUT	✓
S-VIDEO OUTPUT	✓
COMPONENT VIDEO OUTPUT	2 (RCA/BNC)
RGB VIDEO OUTPUT	✓
MP3 PLAYBACK	✓
WMA PLAYBACK	✓
DIVX® VIDEO PLAYABLE	✓
AUDIO DAC	192 kHz/24-Bit
VIDEO DAC	216 MHz/14-Bit
VIDEO CIRCUIT ON/OFF CONTROL	✓
DYNAMIC RANGE CONTROL	✓
VIDEO BLACK LEVEL CONTROL	✓
DIGITAL OUTPUTS	2 Optical/2 Coaxial
ANALOG AUDIO OUTPUT	✓
CD-R/RW PLAYBACK CAPABILITY	✓
DVD-R/RW PLAYBACK CAPABILITY*2	✓
PASSES PLUGE SIGNALS	✓
PROGRAMMED MEMORY PLAYBACK	✓
8-LANGUAGE SOUNDTRACK CAPABILITY	✓
DIMMABLE DISPLAY	4-Mode
COLOR	Silver or Black

DV-SP1000E
✓ (Ultra)
✓
✓
✓
✓ (Dual)
✓
✓
✓
✓
✓
✓
2 (RCA/BNC)
✓
✓
✓
✓
✓
192 kHz/24-Bit
216 MHz/14-Bit
✓
✓
✓
2 Optical/2 Coaxial
✓
✓
✓
✓
✓
✓
✓
4-Mode
Silver or Black

DV-SP504E
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
192 kHz/24-Bit
108 MHz/12-Bit
✓
✓
✓
1 Optical/1 Coaxial
✓
✓
✓
✓
✓
✓
3-Mode
Silver or Black

DV-SP404E
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
96 kHz/24-Bit
108 MHz/12-Bit
✓
✓
✓
1 Coaxial
✓
✓
✓
✓
✓
✓
✓
Silver or Black

HI-FI RECEIVERS	
POWER OUTPUT STEREO (4 , 1 kHz, DIN)	100 W/Ch
POWER OUTPUT STEREO (4 , 1 kHz, IEC)	100 W/Ch
DYNAMIC POWER*1 (4)	120 W/Ch
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓
DISCRETE OUTPUT STAGE CIRCUITRY	✓
HIGH-CURRENT, LOW-IMPEDANCE DRIVE	✓
RDS (RADIO DATA SYSTEM)	✓
AUDIO INPUT/OUTPUT TERMINALS	5/3
PHONO INPUT	✓
IR INPUT/OUTPUT	✓
NUMBER OF PRESETS	40
DIRECT ACCESS TUNING	✓
HEADPHONE JACK	✓
SLEEP TIMER	✓
BANANA PLUG-COMPATIBLE SPEAKER POSTS	✓
RI REMOTE CONTROL	✓
COLOR	Silver or Black

TX-8522
100 W/Ch
100 W/Ch
120 W/Ch
✓
✓
✓
✓
5/3
✓
✓
40
✓
✓
✓
✓
✓
Silver or Black

TX-8222
70 W/Ch
70 W/Ch
90 W/Ch
✓
✓
✓
✓
5/2
✓
✓
40
✓
✓
✓
✓
✓
Silver or Black

TUNERS	
RDS (RADIO DATA SYSTEM)	✓
NUMBER OF PRESETS	30
APR (AUTOMATIC PRECISION RECEPTION)	✓
GROUP MEMORY	3
DIRECT ACCESS TUNING	✓
AUTOMATIC/MANUAL TUNING	✓
PRESET SCAN	✓
SIGNAL STRENGTH INDICATOR	5-Segment
RECEPTION MODE INDICATORS	✓
RI REMOTE SYSTEM	✓
COLOR	Silver or Black

T-433
✓
30
✓
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

T-4555
✓
40
✓
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

T-4211
✓
30
2-Mode
3
✓
✓
✓
5-Segment
✓
✓
✓
Silver or Black

INTEGRATED AMPLIFIERS	
POWER OUTPUT (8 , 1 kHz, DIN)	150 W/Ch
DYNAMIC POWER*1 (4)	270 W/Ch
VL DIGITAL TECHNOLOGY	✓
DISCRETE OUTPUT STAGE CIRCUITRY	✓
AUDIO INPUTS/OUTPUTS	6/2
PRE OUT	✓
MAIN IN	✓
PHONO INPUT	✓
DIRECT FUNCTION	✓
SPEAKER A/B DRIVE	✓
HEAVY-DUTY SPEAKER BINDING POSTS	✓
HEADPHONE JACK	✓
RI REMOTE CONTROL	✓
COLOR	Silver or Black

A-9755
100 W/Ch
270 W/Ch
✓
✓
6/2
✓
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

A-9555
100 W/Ch
200 W/Ch
✓
✓
6/2
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

A-1VL
100 W/Ch
240 W/Ch
✓
✓
4/1
✓
✓
✓
✓
✓
✓
✓
✓
Silver

A-933
80 W/Ch
220 W/Ch
✓
✓
5/2
✓ (Subwoofer)
✓
✓
✓
✓
✓
✓
✓
Silver or Black

A-9211
45 W/Ch
80 W/Ch
✓
✓
5/2
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

CD RECEIVER	
RECEIVER/CONTROL CENTER SECTION	
POWER OUTPUT STEREO*3 (6 , 1 kHz, DIN)	41 W/Ch
POWER OUTPUT STEREO*3 (4 , 1 kHz, DIN)	50 W/Ch
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)	✓
DISCRETE OUTPUT STAGE CIRCUITRY	✓
HIGH-CURRENT, LOW-IMPEDANCE DRIVE	✓
RDS (RADIO DATA SYSTEM)	✓
AUDIO INPUT/OUTPUT TERMINALS	3/2
DIGITAL OUTPUTS	1 Optical/1 Coaxial
SUBWOOFER PRE OUT	✓
NUMBER OF PRESETS	40
PRESET STATION NAMING	✓
DIRECT ACCESS TUNING	✓
AUTOMATIC/MANUAL TUNING	✓
SLEEP TIMER	✓
HEADPHONE JACK	✓
RI REMOTE CONTROL	✓

CR-L5
41 W/Ch
50 W/Ch
✓
✓
✓
✓
3/2
1 Optical/1 Coaxial
✓
40
✓
✓
✓
✓
✓
✓

CD PLAYBACK	
NUMBER OF REPEAT MODES	3 (Entire side/Memory/Random)
SHUFFLE/RANDOM PLAY	✓
AUDIO DAC	Single-Bit
COLOR	Silver

CD PLAYERS	
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)	✓
DIRECT DIGITAL PATH	✓
SUPER HIGH-PRECISION CLOCK	✓
MP3 CD PLAYBACK	✓
PEAK SEARCH	✓
DIGITAL OUTPUT ON/OFF	✓
NUMBER OF REPEAT MODES	4
RANDOM TRACK MEMORY	25
SHUFFLE/RANDOM PLAY	By Remote
NEXT SELECTION	✓
TIME EDIT	✓
DIGITAL OUTPUT	1 Optical/1 Coaxial
ANALOG OUTPUT	✓
HEADPHONE JACK WITH VOLUME CONTROL	✓
RI REMOTE CONTROL	✓
COLOR	Silver or Black

DX-7555
✓
✓
✓
✓
✓
✓
4
25
By Remote
✓
✓
1 Optical/1 Coaxial
✓
✓
✓
Silver or Black

DX-7333
✓
✓
✓
✓
✓
5
36
By Remote
✓
✓
2 Optical
✓
✓
✓
Silver or Black

C-1VL
✓
✓
✓
✓
✓
4
25
By Remote
✓
✓
2 Optical/1 Coaxial
✓
✓
✓
Silver

C-733
✓
✓
✓
✓
✓
4
25
✓
✓
✓
2 Optical
✓
✓
✓
Silver or Black

DX-C390
✓
✓
✓
✓
✓
6
40
✓
✓
✓
1 Optical/1 Coaxial
✓
✓
✓
Silver or Black

CASSETTE DECK	
NUMBER OF MOTORS	1 + 1
NUMBER OF TAPE HEADS	1 + 2
DOUBLE CASSETTE DECK	✓
HIGH-SPEED DUBBING	✓
DOUBLE AUTO REVERSE	✓
AUTO REVERSE	✓
CONTINUOUS PLAY	✓
REC LEVEL CONTROLS	✓
CD SYNCHRO RECORDING	✓
REPEAT PLAY	✓
MUSIC SEARCH	✓
DOLBY® B AND C NOISE REDUCTION	✓
DOLBY® HX PRO	✓
ELECTRONIC COUNTER	✓
FLUORESCENT DISPLAY	✓
RI REMOTE SYSTEM	✓
COLOR	Silver or Black

TA-RW255
1 + 1
1 + 2
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

*1 Calculated on basis of IHF Dynamic headroom. *2 Discs that have not been properly finalized may only be partially playable or not playable at all. *3 Channels are measured separately.

SPECIFICATIONS

A/V RECEIVERS	TX-NR5000E	TX-SR804E	TX-SR674E	TX-SR604E	TX-SR504E	TX-SR304E
AMPLIFIER SECTION						
Power Output**1 (6 , 1 kHz, DIN)	200 W/Ch Front L/R 200 W Center 200 W/Ch Surround L/R 200 W/Ch (L/R)	140 W/Ch; 175 W/Ch*3 140 W/Ch; 175 W/Ch*3 140 W/Ch; 175 W/Ch*3 140 W/Ch (L/R); 175 W/Ch (L/R)*3	125 W/Ch; 150 W/Ch*3 125 W; 150 W*3 125 W/Ch; 150 W/Ch*3 125 W/Ch (L/R); 150 W/Ch (L/R)*3	125 W/Ch; 140 W/Ch*3 125 W; 140 W*3 125 W/Ch; 140 W/Ch*3 125 W/Ch (L/R); 140 W/Ch (L/R)*3	100 W/Ch; 130 W/Ch*3 100 W; 130 W*3 100 W/Ch; 130 W/Ch*3 100 W/Ch (L/R); 130 W/Ch (L/R)*3	90 W/Ch; 100 W/Ch*3 90 W; 100 W*3 90 W/Ch; 100 W/Ch*3
Dynamic Power**2 4 ; 8 (Front)	260 W/Ch; 175 W/Ch	180 W/Ch; 125 W/Ch	165 W/Ch; 105 W/Ch	165 W/Ch; 105 W/Ch	140 W/Ch; 95 W/Ch	125 W/Ch; 85 W/Ch
THD (Rated Power)	0.05 % (All channels)	0.08 % (All channels)	0.08 % (All channels)	0.08 % (All channels)	0.08 % (All channels)	0.7 % (All channels)
Damping Factor (1 kHz, 8)	60	60	60	60	60	60
Input Sensitivity and Impedance						
PHONO (MM)	2.5 mV, 50 k	2.5 mV, 47 k	—	—	—	—
CD and TAPE Play	200 mV, 50 k	200 mV, 47 k	200 mV, 47 k	200 mV, 47 k	200 mV, 47 k	200 mV, 47 k
Output Level and Impedance						
TAPE REC	200 mV, 470	200 mV, 470	200 mV, 470	200 mV, 470	200 mV, 470	200 mV, 470
PRE OUT	1.0 V, 470	1.0 V, 470	1.0 V, 470	1.0 V, 470	1.0 V, 470	1.0 V, 470
Frequency Response						
Audio (CD in Direct Mode)	5 Hz-100 kHz: +1 dB, -3 dB	5 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	5 Hz-100 kHz: +1 dB, -3 dB	10 Hz-50 kHz: +1 dB, -3 dB
S/N Ratio						
PHONO (MM)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	—	—	—	—
CD/TAPE	95 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	100 dB (IHF-A, 0.5 V input)	100 dB (IHF-A, 0.5 V input)
Phono Overload (1 kHz)						
	120 mV RMS, 0.5 % THD	70 mV RMS, 0.5 % THD	—	—	—	—
Tone Controls						
BASS	± 12 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 80 Hz	± 10 dB at 80 Hz	± 10 dB at 80 Hz	± 10 dB at 80 Hz
MID	± 12 dB at 1 kHz	—	—	—	—	—
TREBLE	± 12 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz
TUNER SECTION						
Usable Sensitivity						
FM Mono	11.2 dBf, 1.0 μV (75 IHF)	15.2 dBf, 1.0 μV (75 IHF)	15.2 dBf, 1.0 μV (75 IHF)	15.2 dBf, 1.0 μV (75 IHF)	15.2 dBf, 1.0 μV (75 IHF)	15.2 dBf, 1.0 μV (75 IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 IHF)	22.2 dBf, 2.0 μV (75 IHF)	22.2 dBf, 2.0 μV (75 IHF)	22.2 dBf, 2.0 μV (75 IHF)	22.2 dBf, 2.0 μV (75 IHF)	22.2 dBf, 2.0 μV (75 IHF)
AM	30 μV	300 μV/m	300 μV/m	300 μV/m	300 μV/m	300 μV/m
S/N Ratio						
FM Mono	76 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)
FM Stereo	70 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)
AM	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB
THD						
FM Mono	0.2 %	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %
FM Stereo	0.3 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %
AM	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %
FM Stereo Separation						
	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	40 dB at 1 kHz	40 dB at 1 kHz	40 dB at 1 kHz	40 dB at 1 kHz	40 dB at 1 kHz
GENERAL						
Dimensions (W x H x D)	435 x 220 x 480.5 mm	435 x 173.5 x 430 mm	435 x 174 x 377 mm	435 x 174 x 377 mm	435 x 151 x 377 mm	435 x 150 x 369 mm
Weight	33.0 kg	13.5 kg	11.4 kg	11.0 kg	10.3 kg	8.4 kg

DVD PLAYERS	DV-SP1000E	DV-SP504E	DV-SP404E	HI-FI RECEIVERS	TX-8522	TX-8222
Linear Velocity						
Single layer	3.49 m/s	3.49 m/s	3.49 m/s	AMPLIFIER SECTION		
Dual layer	3.84 m/s	3.84 m/s	3.84 m/s	Power Output (4 , 1 kHz, DIN)		
Frequency Range (Digital Audio)						
DVD-Audio	4 Hz-88 kHz (192 kHz) 4 Hz-44 kHz (96 kHz) 4 Hz-22 kHz (48 kHz)	4 Hz-88 kHz (192 kHz) 4 Hz-44 kHz (96 kHz) 4 Hz-22 kHz (48 kHz)	— 4 Hz-44 kHz (96 kHz) 4 Hz-22 kHz (48 kHz)	Power Output (4 , 1 kHz, IEC)		
DVD Linear Sound	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	100 W/Ch 100 W/Ch		
Audio CD	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	Dynamic Power**2 4 ; 8 (Front)		
S/N Ratio (Digital Audio)						
	118 dB	106 dB	115 dB	120 W/Ch; 75 W/Ch		
Audio Dynamic Range (Digital Audio)						
	100 dB	96 dB	88 dB	0.08 %		
THD (Digital Audio) (1 kHz)						
	0.001 %	0.003 %	0.0065 %	Frequency Response		
Wow and Flutter						
	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	10 Hz-100 kHz (± 1 dB, -3 dB)		
Composite Video Output						
	1.0 V p-p, 75 , negative sync., pin jack x 2, SCART x 1	1.0 V p-p, 75 , negative sync., pin jack x 1, SCART x 1	1.0 V p-p, 75 , negative sync., pin jack x 1, SCART x 1	S/N Ratio		
S-Video Output						
	(Y) 1.0 V p-p, 75 , (C) 0.286 V p-p, 75 , negative sync., Mini DIN 4-pin x 2, SCART x 1	(Y) 1.0 V p-p, 75 , (C) 0.286 V p-p, 75 , negative sync., Mini DIN 4-pin x 1, SCART x 1	SCART x 1	73 dB (IHF-A) 67 dB (IHF-A) 40 dB		
Component Video Output						
	(Y) 1.0 V p-p, 75 , negative sync., pin jack x 2, (Pe)(Pa) 0.7 V p-p, 75 , SCART x 1	(Y) 1.0 V p-p, 75 , negative sync., pin jack x 1, (Pe)(Pa) 0.7 V p-p, 75 , SCART x 1	(Y) 1.0 V p-p, 75 , negative sync., pin jack x 1, (Pe)(Pa) 0.7 V p-p, 75 , SCART x 1	THD		
RGB Video Output						
	0.7 V p-p, 75 , SCART x 1	0.7 V p-p, 75 , SCART x 1	0.7 V p-p, 75 , SCART x 1	0.3 % 0.5 % 0.7 %		
Audio Output						
Digital (Optical)	-22.5 dBm x 2	-22.5 dBm x 1	—	FM Stereo Separation		
Digital (Coaxial)	0.5 V p-p, 75 , pin jack x 2	0.5 V p-p, 75 , pin jack x 1	0.5 V p-p, 75 , pin jack x 1	40 dB at 1 kHz		
Analog Audio	2.0 V RMS, 320 , pin jack (5.1 ch) x 1, pin jack (L/R) x 1, SCART x 1	2.0 V RMS, 470 , pin jack (5.1 ch) x 1, pin jack (L/R) x 1, SCART x 1	2.0 V RMS, 470 , pin jack (L/R) x 1, SCART x 1	GENERAL		
Power Supply						
	220-240 V AC, 50 Hz	100-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz	Dimensions (W x H x D)		
Power Consumption						
	48 W	17 W	7 W	435 x 150 x 332 mm		
Dimensions (W x H x D)						
	435 x 123 x 374 mm	435 x 81 x 309 mm	435 x 61 x 215.5 mm	8.4 kg		
Weight						
	12.1 kg	3.7 kg	1.9 kg	7.5 kg		
Supplied Accessories						
	Audio/Video cable x 1, S-Video cable x 1, SCART cable x 1, Remote control (RC-563DV) x 1, HDMI cable x 1, i.LINK cable x 1	Audio/Video cable x 1, Coaxial cable x 1, Remote control (RC-657DV) x 1	Audio/Video cable x 1, Coaxial cable x 1, Remote control (RC-616DV) x 1			

*1 Channels are measured separately. *2 Calculated on basis of IHF Dynamic headroom. *3 1 channel driven, IEC.

SPECIFICATIONS

INTEGRATED AMPLIFIERS	A-9755	A-9555	A-1VL	A-933	A-9211
Power Output (8 , 1 kHz, DIN)	150 W/Ch	100 W/Ch	100 W/Ch	80 W/Ch	45 W/Ch
Dynamic Power ^{**}	270 W/Ch; 170 W/Ch	200 W/Ch; 120 W/Ch	240 W/Ch; 130 W/Ch	220 W/Ch; 110 W/Ch	80 W/Ch; 55 W/Ch
4 , 8	0.08 %	0.08 %	0.08 %	0.08 %	0.08 % (Rated Power)
THD (1 kHz, 1 W)	0.08 %	0.08 %	0.08 %	0.08 %	0.08 %
Damping Factor (8 , 1 kHz)	25	25	25	25	60
Sensitivity and Impedance					
Phono MM	2.5 mV (50 k)	2.5 mV (50 k)	2.5 mV (50 k)	2.5 mV (50 k)	2.5 mV (47 k)
CD, Tuner, Tape Play	200 mV (50 k)	200 mV (50 k)	200 mV (50 k) (LINE)	200 mV (50 k)	150 mV (25 k)
Rec Out	200 mV (2.2 k)	200 mV (2.2 k)	200 mV (2.2 k)	200 mV (2.2 k)	150 mV (3 k)
Tone Controls					
Bass	± 10 dB at 100 Hz	± 10 dB at 100 Hz	—	± 8 dB at 100 Hz	± 8 dB at 100 Hz
Treble	± 10 dB at 20 kHz	± 10 dB at 20 kHz	—	± 8 dB at 20 kHz	± 8 dB at 10 kHz
Loudness	+ 10 dB at 50 Hz/+ 2 dB at 10 kHz	+ 10 dB at 50 Hz/+ 2 dB at 10 kHz	—	—	± 8 dB at 100 Hz/+ 2 dB at 10 kHz
Frequency Response	10 Hz-60 kHz/+ 1 dB, - 3 dB (CD)	10 Hz-60 kHz/+ 1 dB, - 3 dB (CD)	10 Hz-60 kHz/+ 1 dB, - 3 dB (CD)	10 Hz-60 kHz/+ 1 dB, - 3 dB (CD)	15 Hz-50 kHz (± 1 dB)
S/N Ratio (IHF-A)					
Phono MM	70 dB	70 dB	70 dB	70 dB	80 dB
CD	100 dB	100 dB	100 dB	100 dB	102 dB
Phono Overload (MM 1 kHz 0.5%)	70 mV	70 mV	130 mV	130 mV	130 mV
Dimensions (W x H x D)	435 x 144 x 431 mm	435 x 148 x 431 mm	435 x 82 x 390 mm	275 x 103 x 328 mm	435 x 120 x 331 mm
Weight	17.6 kg	13.0 kg	11.3 kg	7.5 kg	6.7 kg

CD PLAYERS	DX-7555	DX-7333	C-1VL	C-733	DX-C390
Frequency Response	2 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz
S/N Ratio	111 dB	90 dB	110 dB	110 dB	98 dB
Dynamic Range	100 dB	96 dB	96 dB	96 dB	96 dB
THD (1 kHz)	0.0027 %	0.005 %	0.002 %	0.003 %	0.005 %
Channel Separation (1 kHz)	—	85 dB	100 dB	—	92 dB
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability
Dimensions (W x H x D)	435 x 111 x 405 mm	435 x 91 x 308 mm	435 x 81.5 x 356 mm	275 x 103 x 304 mm	435 x 120 x 432 mm
Weight	8.0 kg	4.1 kg	6.8 kg	4.5 kg	6.9 kg

TUNERS	T-433	T-4555	T-4211	CASSETTE DECK	TA-RW255
Tuning Range				Wow and Flutter (WRMS)	0.13 %
FM	87.50-108.00 MHz (50 kHz steps)	87.50-108.00 MHz (50 kHz steps)	87.50-108.00 MHz (50 kHz steps)	Frequency Response	
AM	522-1611 kHz (9 kHz steps)	522-1611 kHz (9 kHz steps)	522-1611 kHz (9 kHz steps)	METAL	30 Hz-15 kHz ± 3 dB
Usable Sensitivity				HIGH	30 Hz-14 kHz ± 3 dB
FM Mono	11.2 dBf, 1.0 µV 75 IMF	11.2 dBf, 1.0 µV 75 IMF	11.2 dBf, 0.9 µV 75 DIN	NORMAL	30 Hz-14 kHz ± 3 dB
FM Stereo	17.2 dBf, 2.0 µV 75 IMF	17.2 dBf, 2.0 µV 75 IMF	17.2 dBf, 20.0 µV 75 DIN	S/N Ratio (METAL, Dolby® NR off)	56 dB
AM	30 µV	30 µV	25 µV	Heads	
S/N Ratio				Rec & Pb.	Special hard permalloy x 2
FM Mono (IHF)	76 dB	76 dB	73 dB	Erase	Ferrite x 1
FM Stereo (IHF)	70 dB	70 dB	66 dB	Motors	DC servo motor x 2
AM	50 dB	40 dB	40 dB	Dimensions (W x H x D)	435 x 121 x 303 mm
THD				Weight	4.9 kg
FM Mono	0.2 %	0.2 %	0.1 %		
FM Stereo	0.3 %	0.3 %	0.2 %		
AM	0.7 %	0.7 %	0.8 %		
Frequency Response (FM)	20 Hz-15 kHz (± 1.5 dB)	30 Hz-15 kHz (± 1.0 dB)	30 Hz-15 kHz (± 1.5 dB)		
FM Stereo Separation	45 dB at 1 kHz	45 dB at 1 kHz	40 dB at 1 kHz		
Dimensions (W x H x D)	275 x 78 x 309 mm	435 x 81 x 310 mm	435 x 91 x 305 mm		
Weight	3.0 kg	4.6 kg	3.6 kg		

CD RECEIVER	CR-L5
RECEIVER/CONTROL CENTER SECTION	
AMPLIFIER SECTION	
Power Output ^{**1} (4 , 1 kHz, DIN)	50 W/Ch
THD (Rated Power/1 W Output)	1 %/0.2 %
Frequency Response	10 Hz-100 kHz (- 3 dB)
S/N Ratio	100 dB (IHF-A)
TUNER SECTION	
Usable Sensitivity	
FM Mono	11.2 dBf, 1.0 µV (75 IHF)
FM Stereo	17.2 dBf, 2.0 µV (75 IHF)
AM	30 µV
S/N Ratio	
FM Mono	73 dB
FM Stereo	67 dB
AM	40 dB
THD	
FM Mono/FM Stereo/AM	0.2 % / 0.3 % / 0.7 %
FM Stereo Separation	35 dB at 1 kHz, 25 dB at 100 Hz-10 kHz
CD SECTION	
Signal Readout System	Optical non-contact
Reading Rotation	About 200-500 r.p.m. (Constant linear velocity)
Linear Velocity	3.49 m/s (Single layer), 3.84 m/s (Dual layer)
Error Correction System	Reed Solomon Product Code
DAC	96 kHz/24-Bit
Number of Channels	2 (Stereo)
Digital Filter	352.8 kHz, 8x oversampling
Frequency Response	5 Hz-20 kHz
Wow and Flutter	Below threshold of measurability
GENERAL	
Power Supply	230-240 V AC, 50 Hz
Power Consumption	130 W
Dimensions (W x H x D)	435 x 81.5 x 382 mm
Weight	6.8 kg
Supplied Accessories	Remote control (RC-535) x 1

^{*1}Channels are measured separately. ^{**2}Calculated on basis of IHF Dynamic headroom.

ONKYO®

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